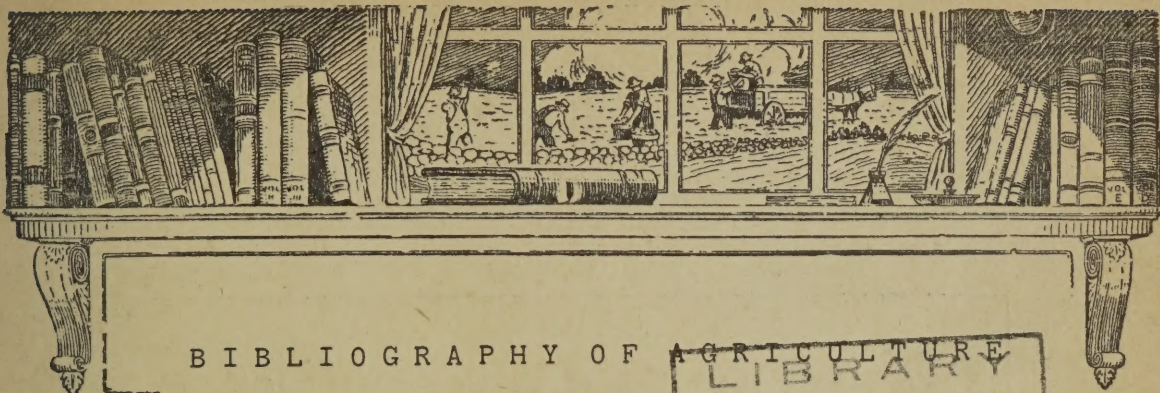


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Vol. 2

January 1943

No. 1

The Bibliography of Agriculture is issued monthly in six sections.

Section A, Agricultural Economics and Rural Sociology. Supersedes Agricultural Economics Literature.

Section B, Agricultural Engineering. Supersedes Current Literature in Agricultural Engineering.

Section C, Entomology. Supersedes Entomology Current Literature.

Section D, Plant Science. Supersedes Plant Science Literature.

Section E, Forestry. Continues Forestry Current Literature, which ceased publication with v. 7, no. 2, March-April 1940.

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## BIBLIOGRAPHY OF AGRICULTURE

SECTION E  
FORESTRY\*

Vol. 2

January 1943

No. 1

GENERAL FORESTRY

ASSOCIATION adopts 1943 wartime program. Amer. Forests 49(1): 11, 45.  
Jan. 1943. 99.8 F762

Program calls for an appraisal of the nation's forest situation by the American Forestry Association, intensification of educational and legislative activities for fire protection, adoption of improved methods of forestry practice and active promotion of research on forestry products.

BOURKE-BORROWES, D. Our foremost forestry service. Trees 6(3): 75-78. Jan.-Feb.-Mar. 1943. 99.8 T714

Forestry in India is well developed with administration on a legal basis, standard of management in some forests approximating that in France and Germany, and forest education and forest research receiving much attention.

CENTRAL STATES REGIONAL CONFERENCE OF EXTENSION FORESTERS. Report. 5 pp., processed. Madison, Wis., U. S. Dept. of agriculture, Extension service, Feb. 12-14, 1942. 1.913 C3C231

COOPER, WILLIAM E. Vocational agriculture forestry projects in South Carolina. South. Lumberman 165(2081): 159-160, illus. Dec. 15, 1942. 99.81 So82

Since 1931 the South Carolina State Forest Service in cooperation with the Vocational Education Division of the State Department of Education has been establishing forest projects. An outline of a typical work plan for the projects is presented.

DELAWARE. STATE FORESTRY COMMISSION. Annual report, 1941-1942. 30 pp., tables. Dover [1942]. 99.9 D37R

GRAVES, HENRY S. Joint committee on forestry, National research council and Society of American foresters. Jour. Forestry 40(12): 923-926. Dec. 1942. 99.8 F768

Outlines the objectives and the program of activities of the Committee, considering both war and postwar problems.

JACOBS, WILLIAM F. Florida's farm forestry program. Agr. Ed. [Des Moines] 15(7): 128-129, illus. Jan. 1943. 275.8 Ag8

Program of forestry activities at Camp O'Leno begun eight years ago by the Florida Forest and Park Service as a place to provide practical forestry and field training for the Future Farmers of Florida.

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\*References on forest entomology are included in Section C, Entomology; references on forest botany in Section D, Plant Science.



NOVA SCOTIA ECONOMIC COUNCIL. Reports, v. 5, nos. 36-47, 1940. 71 pp.  
Halifax, N. S., King's printer, 1942. Bibliographical footnotes.  
280.9 N85

No. 36, pp. 11-12. Proposed establishment of a forestry demonstration and training area. No. 40, pp. 28-34, tables. A program for the forestry industry of Nova Scotia.

ONTARIO forest department activities and plans. Pulp and Paper Mag. Canada 43(13): 958-960. Dec. 1942. 302.8 P96

SASKATCHEWAN. DEPT. OF NATURAL RESOURCES. Annual report, 1939-1940. 10 pts., processed. [Regina] 1940. 279.9 Sa7

Pt. 1. Forestry, pp. 1-32, illus., map.

U. S. FOREST SERVICE. Forestry in wartime; report of the chief of the Forest service, 1942. 23 pp. Washington, D. C., 1942. 1 F76

U. S. FOREST SERVICE. DIV. OF INFORMATION AND EDUCATION. Employment possibilities in the Forest service. 32 pp., processed. [Washington, D. C.] June 1941. 1.962 I2Em7

The work of the Forest Service in the practice of forestry on the national forests and other federal and state lands, and the procedure for obtaining employment in its organization.

U. S. FOREST SERVICE. SOUTHWESTERN REGION. National forest facts, Southwestern region; Arizona and New Mexico. 47 pp., tables, processed. [Tucson, Ariz.] Mar. 1, 1942. 1.9621 R3N21

Contents: Origin of southwestern national forests, operation, timber management, wildlife and range management, recreation and lands, engineering, miscellaneous.

WAGAR, J. V. K. Who shall define forestry and how? Jour. Forestry 40(12): 930-935. Dec. 1942. Literature cited. 99.8 F768

The differences of opinion as to the scope of forestry are shown by references to definitions of the term made by both foresters and non-foresters.

### FOREST ADMINISTRATION AND POLICY

DEMMON, E. L. Our forests and the future. Ark. Farmer 44(12): 8, illus. Dec. 1942. 6 Ar42

Describes the present state of Arkansas forests and suggests measures to improve the situation.

DEVRIES, WADE E. Rural property tax rates for 1940 in Oregon and Washington counties; a preliminary forest land economics report. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Studies in Forest Land Econ. Rpt. 3, 23 pp., illus., processed. Portland, Oreg., Nov. 1942. 1.9622 P2St9

A study of variations in rural property tax rates in Oregon and Washington made to determine the effect of tax laws and practices on forestry and its perpetuation under private ownership.

FEDERAL land expansion in Minnesota recreational areas; an editorial. Conserv. Volunteer 5(26): 59-68, map. Nov. 1942. 279.8 C765

Reprint of an article which appeared in the June issue of the Conservation Volunteer expressing the views of the Minnesota Conservation Department concerning the federal land acquisition program.



THE FORESTRY balance wheel in the Douglas fir region. Amer. Lumberman, Jan. 9, 1943, pp. 30-31, illus. 99.81 Am3

Industrial forestry, properly conducted, is like a balance wheel with growing, protecting, harvesting, manufacturing and marketing as spokes rotating perpetually.

FORSLING, C. L. The future of the forests. U. S. Off. Foreign Agr. Relat. Agr. in the Americas 3(1): 13-16, illus. Jan. 1943. 1 F752A

The countries of Central and South America will probably have an opportunity to develop a large post-war, export trade in lumber, both in general usage and special-purpose woods. A policy of conservation and management should be planned for each country so that the forest resources will not be wasted or destroyed.

HORNE, BERNARDINO C. La riqueza forestal argentina se halla indefensa. [Rosario, Argentina] Bolsa de Com. Bol. Ofic. 30(737): 21-24. Sept. 30, 1942. 287 R71

Stresses the urgent necessity for the passage of legislation to protect the forests of Argentina.

LA FOLLETTE, L. M., JR. Neglected resources in state forest land use. (To be cont.) W. Va. Conserv. 7(8,i.e.9): 16-20. Dec. 1942. 279.8 W524

In formulating a sound state forest land use policy for West Virginia, legislative problems concerning taxation, adoption of a conservation policy, and education must be worked out first.

LAING, GEORGE M. Minnesota forests and the nation. Conserv. Volunteer 5(26): 50-59. Nov. 1942. 279.8 C765

Presenting the views of the Minnesota Wildlife Federation concerning correlation of federal and state programs in Minnesota, written "in partial reply to the editorial entitled 'Federal Land Expansion,' published in the June 1942 issue of the Conservation Volunteer," and reprinted in the November issue.

MILLER, WAYNE G. Cooperating forest farmers boost southern forestry. South. Lumberman 165(2081): 149-151, illus. Dec. 15, 1942. 99.81 So82

Policy and accomplishments of the Forest Farmers Association Cooperative in stimulating better forestry in the South.

MURPHY, LOUIS S. 1941 supplement to state forest tax law digest of 1939. 12 pp., processed. Washington, D. C., U. S. Forest service, Oct. 1, 1941. 1.962 F4St2

Covers changes in special forest tax legislation from October 1, 1939 through October 1, 1941.

ROBERTSON, F. Fifteen years of forest administration in the United provinces: a short retrospect. Indian Forester 68(2-3): 55-64; 115-122, pl. Feb.-Mar. 1942. 99.8 In2

Presents important developments in forest fire protection, in silviculture with emphasis on artificial regeneration and selective felling, in afforestation, in systems of communication, in increase of yield and revenue from forests, in research, in game preservation and in other topics.

SIMMONS, JAMES R. Forest prospects in Massachusetts. Jour. Forestry 40(12): 940-944. Dec. 1942. 99.8 F768

Increased interest in better forestry practices such as improved cutting practices, more fire control, greater utilization of all products of the tree and other signs indicate a new valuation of the forests since the New England hurricane in 1938.



SUMMARY of revenue and expenditure and surplus of the Forest department in India, for the financial years 1939-40 and 1940-41. Indian Forester 68(9): 486-487, table. Sept. 1942. 99.8 In2  
 TRYON, RICHARD R. We are growing trees. South. Lumberman 165(2081): 195-197. Dec. 15, 1942. 99.81 So82

Objectives and accomplishments of the Tree Farms System in Alabama and Arkansas.

WESTERN FORESTRY AND CONSERVATION ASSOCIATION. Forestry policy conference, December 10, 11, and 12, 1941. 123 pp., processed. Seattle, Wash., Shindell & co. [1942?] 99.9 W522

Emphasis on protecting forest resources from physical dangers as fires, insects, diseases and carelessness.

### FOREST FIRE PROTECTION

DEMMON, E. L. Periodicity of forest fires in the South. South. Lumberman 165(2081): 220-222, illus. Dec. 15, 1942. 99.81 So82

Causes, extent and periodicity of forest fires in the South with figures for eight states: Virginia, North Carolina, South Carolina, Florida, Mississippi, Louisiana, Texas and Arkansas.

GISBORNE, H. T. How the wind blows in the forest of northern Idaho. 16 pp., illus., processed. Missoula, Mont., U. S. Forest service, Northern Rocky mountain forest and range experiment station, June 10, 1941. 1.9622 N3H83

A progress report prepared for the use of fire control men in estimating the amount of allowance to make for the reduction of wind velocity caused by forest growth in the Rocky Mountain Region.

GISBORNE, H. T. New facts on lightning. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 24, 3 pp., processed. Missoula, Mont., June 25, 1942. 1.9622 N3R31

Summaries of some findings of the General Electric Company.

KEETCH, JOHN J. Smoker fires and fire brands. U. S. Forest Serv. Appalachian Forest Expt. Sta. Tech. Note 49, 4 pp., processed. Asheville, N. C., Dec. 15, 1941. [References] 1.9 F7623T

Presents the results of a review of fire brand and ignition studies made to determine the seriousness of the smoker fire problem.

MARKWELL, KATHERINE A. Smokers and forest fires. U. S. Forest Serv. B-44, 9 pp., processed. Washington, D. C., Jan. 1941. 1.9 F7681B

Summarizes the legislation of various states intended to prevent forest fires caused by careless smokers.

PLANES aid in detecting forest fires; prevention activities being stressed. Outdoor Ind. 9(11): 5, 14, illus., map. Dec. 1942. 279.8 Ou82

Civil Air Patrol assists in locating fires.

TOMASEK, ANTON J. Forestry's fight. Ill. Conserv. 7(4): 10-11, illus. Dec. 1942. 279.9 I1611

The rural fire protection program in Illinois organized by the State Council of Defense and the Forestry Division provides for extensive county activities including supervised instruction in the protection of forest lands.

U. S. DEPT. OF AGRICULTURE. OFFICE OF PERSONNEL. Class specifications for fire control positions in the Forest service. 65 pp., processed. Washington, D. C., May 1, 1942. 1.917 C2C561



U. S. FOREST SERVICE. CALIFORNIA REGION. Aerial delivery of supplies. 33 pp., illus., processed. San Francisco, Calif., May 1, 1939. 1.9 F7666Ae

Technical information concerning the "retarder method" for aerial delivery of supplies in forest fire fighting as reported with changes by the California Region.

### FOREST MANAGEMENT

AFANASIEV, M. Short-time and long-time planning in forestry. Jour. Forestry 40(12): 948-952. Dec. 1942. 99.8 F768

Profit from short-time planning in forestry can be realized from intermediate cuttings of pulpwood, Christmas trees, fuel wood, fence posts, etc., and from the control of soil and water erosion; profit from long-time planning in forestry can be realized from the restoration of mistreated lands and the continuous supply of raw materials.

ALLSOP, F. An exercise in silviculture. Indian Forester 68(3): 129-133. Mar. 1942. 99.8 In2

Discussion of a method of "regeneration markings" for forests in Burma which maintains a balance between silvicultural and utilization aspects of forestry.

ALLSOP, F. Plantations in the Twante-Kondan reserve, Insein division, Burma. Indian Forester 68(4): 177-181. Apr. 1942. 99.8 In2

Experiments in the vegetable-taungya method of afforestation using different species of native trees.

BANERJEE, A. L. A note on the Parlakimidi forest division. Indian Forester 68(2): 66-74. Feb. 1942. 99.8 In2

Presents a discussion of forest policy and management against the geographic and sociological background of the Parlakimidi Forest Division.

BULL, HENRY. How much profit in pruning old-field loblolly pine? South. Lumberman 165(2081): 229-232, illus. Dec. 15, 1942. Bibliographical footnotes. 99.81 So82

Estimation of substantial profit made.

CHEYNEY, EDWARD G. American silvics and silviculture. 472 pp., illus. Minneapolis, University of Minnesota press, 1942. Bibliography, pp. 454-466. 99.45 C42

European silvicultural practices brought out in connection with a study of the factors that influence the growth of trees, and of the characteristics of the more important American species.

[COMMISSION OF RESEARCH FOR THE STUDY OF DEFORESTATION AND EROSION IN AFRICA. Proceedings.] 45 pp., processed. [London?, 1942] 56.7 C73

On title page: Commission Set up to Study Deforestation and Erosion in Tropical Countries under the Auspices of the Royal African Society. Representatives of the British, French and Belgian colonies and the overseas territories of the Netherlands were included at the sessions of the Commission in London in 1942. Resolutions were passed for a survey of the forests of each district and other alleviating measures to be undertaken as initial steps.



DELISLE, ROCH. Les boisés de ferme. Forêt Québécoise 5(1): 43-54.

Jan. 1943. 99.8 F79

Presented at the Regional Conference of the Quebec Forestry Association, held at Ste-Anne de la Pocatière, Sept. 24, 1942.

Discussion of the role that the farm woodlands can play in farm economy through beneficial influences on soil, water and wildlife conservation, and their contribution to employment, farm income and industry.

ETTER, H. Pflanzensoziologische Überlegungen zur kriegswirtschaftlichen Übernutzung des schweizer waldes. (Discussions concerning the excessive clearing of timber in the woods of Switzerland for use in making war materials.) Schweiz. Ztschr. f. Forstw. 93(9): 224-232. Sept. 1942.

99.8 Sch9

GAINES, EDWARD M. Changing forest management to meet war needs. South. Lumberman 165(2081): 217-219, illus. Dec. 15, 1942. 99.81 So82

Location and method of cutting are subject to change due to war conditions, but any practices harmful to forest preservation are to be avoided as far as possible.

GIBBS, J. S., and CRAIG, J. C. Black locust for good land use and profit. U. S. Soil Conserv. Serv. Soil Conserv. 8(7): 157-159, illus. Jan. 1943. 1.6 So3S

Black locust trees planted on steep slopes of a 638-acre farm, by farm labor during periods of slack field work, have yielded thousands of posts, and other timber, helped conserve soil, water and wildlife, and made the farm more attractive.

LAL, A. B. Advance thinning for teak plantations. Indian Forester 68(8): 430-435. Aug. 1942. 99.8 In2

Points out the disadvantages of many methods of thinning including advance thinning, but recommends the latter method for teak plantations since it anticipates suppression and does not allow crown-differentiation to take place.

LAL, A. B. Significance of teak-sal mixture from the standpoint of plant succession. Indian Forester 68(4): 181-185. Apr. 1942. 99.8 In2

Regarded as a transitory community since sal usually gets the upper hand in its competition with teak and often completely excludes the other.

LIEFELD, T. A. How important is the advance streak? AT-FA (Amer. Turpentine Farmers Assoc. Coop.) 5(3): 8-9, table. Dec. 1942. 309.8 Am3.

Study and analysis by the Southern Forest Experiment Station of first-year gum-yield records from 250 second-growth longleaf and slash pines on the Olustee Experimental Forest to determine the merits of the advance streak, of chipping on the advance streak, and of the proper time interval to allow between chipping and the beginning of regular work.

LIPSCOMB, E. M. Henry Ford, timber farmer; Georgia sportsmen's organization cites timber farming operation as aid to wildlife conservation. South. Lumberman 165(2081): 202-203. Dec. 15, 1942. 99.81 So82

Through scientific timber farming, the almost desolate wasteland at Richmond Hill plantation in Bryan County, Georgia, has been transformed into well managed and conserved land for farm, forest and wildlife.



McDERMOTT, BOB, and FOA, MARIO. Woodlots in wartime. Iowa Agriculturist 44(6): 6. Jan. 1943. 6 Io9

Practices to follow in management and marketing of farm woodlots for profit.

McINTYRE, A. C. A new classification procedure for agricultural land according to use capabilities and its importance to forestry. Jour. Forestry 40(12): 936-939, table. Dec. 1942. 99.8 F768

Procedures necessary for the preparation of practical land use maps are the making of soil conservation surveys, and the interpretation and classification of the survey data according to capability classes. The procedure will have far reaching effects on forestry since many million acres of farm woodlands will be included in the study.

MUNTZ, H. H. Integrated utilization in bottomland hardwoods. South. Lumberman 165(208): 193-194, illus. Dec. 15, 1942. 99.81 So82

Simultaneous harvesting of sawlogs, cooperage materials and speciality stock often proves to be both a more profitable operation than separate cutting for each product and a means of improving the future productivity of the forest.

OSTROM, C. E. Eliminating hardwood stump sprouts. U. S. Forest Serv. Allegheny Forest Expt. Sta. Tech. Note 32, 1 p., illus. Philadelphia, Pa., Nov. 25, 1941. 1.9 F76222T

In cooperation with the University of Pennsylvania.

A study of stump behavior on the Kane Experimental Forest in northwestern Pennsylvania revealed that desprouting is a cheaper and more effective method of getting rid of sprouts than girdling or peeling.

PERCIVAL, W. C. Cooperative woodland management and marketing - an essential part of a complete land-use program. Jour. Forestry 40(12): 944-947. Dec. 1942. 99.8 F768

General principles for cooperatives are brought out with particular reference to the activities of the Otsego Forest Products Cooperative Association and the West Virginia Forest Products Association, both of which have been operating for five years or more.

PETITMERMET, M. Forst- und holzwirtschaft im kriegsjahr 1942. (Forest and timber economy in the war year, 1942.) Schweiz. Ztschr. f. Forstw. 93(9): 209-214. Sept. 1942. 99.8 Sch9

#### PLANTING

KRAUCH, HERMANN. Control of rodents in Douglas-fir cut-over stands relatively more important than seed supply. U. S. Forest Serv. Southwest. Forest and Range Expt. Sta. Res. Note 100, 2 pp., processed. Tucson, Ariz., May 1942. 1.9 F7621R

McKEEVER, D. G. Direct seeding of western white pine using poisons for rodent control. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 18, 6 pp., processed. Missoula, Mont., Mar. 27, 1942. Bibliographical footnotes. 1.9622 N3R31



- McKEEVER, D. G. Results of direct seeding of ponderosa pine in the Northern Rocky mountain region. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 20, 6 pp., processed. Missoula, Mont., May 1, 1942. Bibliographical footnotes. 1.9622 N3R31
- McKEEVER, D. G. Results of direct seeding of western redcedar and Engelmann spruce in the Northern Rocky mountain region. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 21, 9 pp., tables, processed. Missoula, Mont., May 8, 1942. Bibliographical footnotes. 1.9622 N3R31
- STAHELIN, RUDOLPH. Thirty-five years of planting on the national forests of Colorado. 82 pp., illus., processed. Fort Collins, Colo. U. S. Forest service, Rocky mountain forest and range experiment station, Oct. 1941. 1.9622 R2T34
- Results and recommendations of a 1938-1939 survey of reforestation activities in Colorado since 1906, largely on Pike National Forest, made to furnish a background for formulating a sound planting program for other areas.

#### FOREST MEASUREMENTS

- DAVEY, REGINALD. Measurement of trees. 236 pp., illus. Nutley, Sussex, England, Forest press, 1942. List of references, p. 229. 99.4 D27
- Systematic study of the ocular system of measuring growing trees, presented after 3 years' research into British commercial methods.
- DAVEY, REGINALD. Measurement of trees; woodland supplement. 12 pp. Nutley, Sussex, England, Forest press, 1942. 99.4 D27
- Explanation of methods advocated in his Measurement of Trees with inclusion of processes developed since publication of that volume.
- MESAVAGE, CLEMENT. Volume tables for commercial timber in the anthracite region of Pennsylvania; progress report. U. S. Forest Serv. Allegheny Forest Expt. Sta. Anthracite Survey Paper 4, 27 pp., illus., processed. Wilkes-Barre, Pa., May 18, 1942. 1.9622 A2An8
- Tables giving volumes for any commercial species in the region with height measurements restricted to the merchantable portion of the tree and adjustments possible by simple ocular estimates of tree paper.
- OSTROM, C. E. Pulpwood volume table for beech poles. U. S. Forest Serv. Allegheny Forest Expt. Sta. Tech. Note 36, 1 p., processed. Philadelphia, Pa., Nov. 16, 1942. 1.9 F76222T
- In cooperation with the University of Pennsylvania.
- PERSON, HUBERT L. Increment of residual redwoods. Jour. Forestry 40(12): 926-929, illus. Dec. 1942. 99.8 F768
- Study of selected trees in the cutover areas of Humboldt County, California, principally those logged around 1900 to 1920, to estimate probable yield.



SIMMONS, F. C. Simplifying tree measurement timber sale procedure. Jour. Forestry 40(12): 963-966, tables. Dec. 1942. Bibliographical footnotes. 99.8 F768

The streamlined procedure of making tree measurement sales by which standing, marked trees are sold on the basis of an ocular estimate of their volume and value is gaining in use as a result of the increased need for forest products and the lack of available manpower.

U. S. FOREST SERVICE. LAKE STATES FOREST EXPERIMENT STATION. Short cuts in scaling. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Notes 181-183, 3 nos. (1 p. each), processed. St. Paul, Minn., March 1942. 1.9 F7625T

Pt. I. Measuring sample truck loads; Pt. II. Using stacked dimensions to obtain board-foot volume; Pt. III. Measuring sample logs.

WESTVELD, MARINUS. Yield tables for cut-over spruce-fir stands in the Northeast. U. S. Forest Serv. Northeast. Forest Expt. Sta. Occas. Paper 12, 16 pp., processed. New Haven, Conn., Nov. 6, 1941. 1.9 F76220c

Study of mixed spruce-hardwood stands ranging up to 60 years of age and having a wide variety in composition and growing conditions.

#### FOREST RESOURCES

BETTS, H. R. American woods. 9 nos., processed. Washington, D. C., U. S. Forest service, 1942. 1.9 F76Am

Description, nomenclature, distribution and growth, supply, production, properties and principal uses.

##### Contents:

Atlantic white-cedar (*Chamaecyparis thyoides*), 5 pp., map. Sept. 1942. References.

Balsam fir (*Abies balsamea*), 9 pp., illus., map. Oct. 1942.

Douglas-fir (*Pseudotsuga taxifolia*), 13 pp., illus., map.

Sept. 1942. References.

Hackberry, 8 pp., illus., maps. June 1942. References.

Lodgepole pine (*Pinus contorta*), 5 pp., illus., map. Oct. 1942.

Bibliographical footnotes.

Northern white-cedar (*Thuja occidentalis*), 6 pp., map. Sept. 1942. References.

Ponderosa pine (*Pinus ponderosa*), 10 pp., illus., map. Oct. 1942. References.

Western white pine (*Pinus monticola*), 8 pp., illus., map. Oct. 1942. References.

Yellowpoplar (*Liriodendron tulipifera*), 10 pp., illus., map. Oct. 1942. References.

CRAIG, RONALD B. Mississippi's forest bank account. South. Lumberman 165(2081): 211-212, illus. Dec. 15, 1942. 99.81 So82

Current forest situation in Mississippi with an estimate of the basic wood supply as of January 1, 1942.



- DAVIS, DARRELL H. The earth and man; a human geography. 675 pp., illus. New York, Macmillan co., 1942. 278 D29  
Ch. 27, pp. 455-474: Forests and the forest industries. Selected references [with annotations].
- HUTCHISON, S. BLAIR. The forest situation in Lincoln county, Montana. U. S. Forest Serv. North Rocky Mountain Forest and Range Expt. Sta. Forest Survey Release 20, 57 pp., illus., map., processed. Missoula, Mont., March 1942. Bibliographical footnotes. 1.9 F7628F  
Forests and forest industries.
- LOCKARD, CHARLES R. A goal for forestry in the lower South. South. Lumberman 165(2081): 187-191, illus., map. Dec. 15, 1942. 99.81 So82  
An appraisal of southern forest resources based on information from the nation-wide Forest Survey at the Southern Forest Experiment Station.
- MESAVAGE, CLEMENT. The next forest inventory in the lower South. South. Lumberman 165(2081): 238-240, illus. Dec. 15, 1942. 99.81 So82  
The next forest survey will make use of recently developed statistical technique and many improvements in aerial photography.
- POPLAR paper. Business Week no. 697, p. 62. Jan. 9, 1943. 230.8 Sy8  
Uruguay is planting extensive quantities of a new, early maturing hybrid poplar to use in making pulp for paper in order to replace imports cut off by the war.
- RESNER, HERBERT A. Trees and men; a survey of forestry and the lumber industry in Washington. Ed. 2, 133 pp., illus., processed. Seattle, Wash. Works progress administration, Dec. 1938. Bibliography. 99.61 R31
- STOVER, W. S. Forest resources of the Delta section of Mississippi; a progress report by the Southern forest survey. U. S. Forest Serv. South. Forest Expt. Sta. Forest Survey Release 53, 28 pp., illus., maps, processed. New Orleans, La., June 15, 1942. 1.9 F7624F  
"...based on a field survey made chiefly between April and August 1932, and on three field canvasses of forest industrial plants to determine forest drain, the last of which was made in cooperation with the Census and completed during June 1939."
- WACKERMAN, A. E. What is ahead for forestry in Georgia. South. Lumber Jour. 47(1): 14, 78. Jan. 1943. 99.81 So8  
Address at the Annual conference of the Forest Farmers Association Cooperative, Waycross, Ga., December 18, 1942.  
A picture of Georgia forest resources, their possibilities for the future, and some factors necessary for their development.

#### LUMBERING

- CHOPRA, R. S. Supply of timber for the war from the Punjab. Indian Forester 68(4): 188-205, pl., tables. Apr. 1942. 99.8 In2  
Outlines the organization by which the Punjab Forest Department has been able to purchase, transport, season and supply large quantities of timber for war purposes. Presents a table giving army timber specifications.



COOMBS, W. F. War supplies of timber from the East Almora division. Indian Forester 68(7): 368-370. July 1942. 99.8 In2

Because of the absence of roads, insufficient means of conveyance, and long distances involved, the transport of large quantities of timber from the East Almora division by the native coolies is an illustration of "the triumph of mind over matter."

COWLIN, R. W. Tires; key to lumber production program. Timberman 44(2): 10-15, illus. Dec. 1942. 99.81 T484

Study by the U. S. Forest Service to determine the use of rubber-tired vehicles in converting standing trees to finished products particularly in log hauling. The information and statistics may be used in analyzing tire problems of forest industries in other parts of the country, but the application here is mainly to those of Oregon.

KOSSORIS, MAX D., and McELROY, FRANK S. Causes and prevention of accidents in logging and lumber mills. South. Lumberman 165(2081): 295-296, 298, 300. Dec. 15, 1942. 99.81 So82

LAMINATED wood rollers. Fibres and Fabrics Jour. 9(2): 37. Nov. 1942. 304.8 Ir42

The difficulty experienced in the textile trades of seasoning large-size rollers usually made of imported woods has been met by the recent manufacture of a roller made from home-grown boards, thoroughly seasoned, laminated into the desired size and held together by cement glue.

NEW ELECTRIC tree faller ready to carry a share of the wartime timber production job. South. Lumber Jour. 47(1): 42, illus. Jan. 1943. 99.81 So8

Description of an electric power saw, known as the Atkins-Hassler Tree Faller.

PARSONS, E. H. Foresters' and general information on mechanized logging field. Canada Lumberman 63(2): 17-19. Jan. 15, 1943. 99.81 C16

On the economy and efficiency of using tractors and allied equipment in logging in the principal forest regions of Canada.

SI, G. MAUNG. Rafting in the Myitmaka extraction division. Indian Forester 68(5): 258-261. May 1942. 99.8 In2

Difficulties of log transportation by rafts along the Myitmaka River.

TOUSLEY, F. J. Kiln drying as practiced at the plant of the Oregon-American lumber corporation, Veronia, Oregon. West Coast Lumberman 69(12): 18, 47, illus. Dec. 1942. 99.81 W52

"This company pioneered in the field of kiln drying Douglas fir common lumber."

TRUCK logging safety regulations. Canada Lumberman 63(1): 20. Jan. 1, 1943. 99.81 C16

Lists 22 safety regulations imposed by the province of British Columbia to govern motor truck logging.

WOMEN have a place in the lumber business. Amer. Lumberman, no. 3246, pp. 22-23, illus. Dec. 26, 1942. 99.81 Am3



PRODUCTS UTILIZATION

ARMY USES demountable wood huts. Amer. Lumberman, no. 3246, p. 25, illus. Dec. 26, 1942. 99.81 Am3

Demountable, prefabricated all-wood huts are designed for army housing needs in the Far North.

CHATURVEDI, M. D. War supplies from forests of Pilibhit. Indian Forester 68(3): 138-140, pl. Mar. 1942. 99.8 In2

Supplying vast quantities of scantlings, poles and other timber for army equipment has created scenes of bustle in the forests of Pilibhit.

COLLINGWOOD, HARRIS. Drafting our forests. Pop. Mechanics Mag. 79(1): 7-13, 177-179. Jan. 1943. 291.8 P81

The versatility in uses of wood, and wood products chemically treated, cooked or molded under pressure as shown by a review of some of the output.

COMPTON, WILSON. Forest products shortages are fears, not facts. South. Lumberman 165(2081): 117-118. Dec. 15, 1942. 99.81 So82

Essential lumber requirements have been met in 1942 by drawing upon stock piles or inventories. Use of economic measures, maintenance of production and change in tax policies are necessary to increase usefulness of lumber supply.

COOK, A. S. In Christmas tree land. West. Farm Life 44(24): 3, 10, illus. Dec. 15, 1942. 6 R153

Northwestern Montana supplied 4,000,000 of the 10,000,000 Christmas trees used in the nation in 1941, with Eureka, Montana, leading in shipping over a million. National and state foresters have developed techniques and policies to increase rather than to deplete the supply available.

ELLIS, BENJAMIN R. Wartime demands for tidewater red cypress. South. Lumberman 165(2081): 152. Dec. 15, 1942. 99.81 So82

Because of its chemical and decay resistance qualities, cypress is in demand for tanks and vats for powder plants and for ship planking and decking.

FROST, B. M. World paper consumption, 1927-1938. 87 pp., processed. Washington, D. C., U. S. Bur. of foreign and domestic commerce, May 1941. 157.55 W894

HAYWARD, PHILLIPS A. Wood for the navy. South. Lumberman 165(2081): 153-154. Dec. 15, 1942. 99.81 So82

The usage of wood and the species of most importance in naval construction.

HEYWARD, FRANK, JR. Why turpentine butts are not accepted for pulpwood. AT-FA (Amer. Turpentine Farmers Assoc. Coop.) 5(3): 7, 10, illus. Dec. 1942. 309.8 Am3

Since the presence of charcoal, tacks and nails in turpentine butts makes their use prohibitive to many pulp mills, the Southern Pulpwood Conservation Association recommends the production of "clean turpentine butts."



HUTCHISON, S. BLAIR. Alabama; number one lumber state of the South. South. Lumberman 165(2081): 235-237, illus. Dec. 15, 1942, 99.81 So82

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LANK, EVERETT. Improvements in timber engine ring serve the nation. South. Lumberman 165(2081): 139-142, illus. Dec. 15, 1942, 99.81 So82

Activities of the Timber Engineering Co. including usage of Teco timber connectors.

LIMAYE, V. D. Timber roof trusses with solid disc dowels, and report on tests on two trusses of 40 ft. span. Indian Forester 68(9): 467-471, pl., table. Sept. 1942. 99.8 In2

Points out the advantages in the usage of wood as a building material, and presents a table showing comparative cost and saving in using wood in the place of steel for building trusses.

McCALLUM, W. H. Plywood in the war. South. Lumberman 165(2081): 311-312, 314, illus. Dec. 15, 1942. 99.81 So82

Shows the many applications for plywood in boats, bridges, ships, aircraft, prefabrication, etc.

McFEE, ROY E. Conservation and timber use. Jour. Forestry 40(12): 956-958. Dec. 1942. 99.8 F768

Cites examples showing that timber specifications more closely adapted to the actual use to be made of the lumber could bring about conservation of forest products.

A MANHOLE cover of treated wood. Roads and Streets 85(12): 46, illus. Dec. 1942. 288.8 R536

Pressure-treated manhole cover made of laminated wood strips and concrete frame which saves approximately 500 lbs. of metal.

MELLINGER, M. C. Are wooden tires practical? Eastern brewery seeks answer. Mod. Brewery Age 28(6): 37-38, 71, illus. Dec. 1942. 390.8 M72

Experiments in wooden tire building and operating at the Christian Feigenspan Brewing Co., Newark, N. J., reveal that a three-ply tire made of oak or elm, glued or screwed on a steel rim with one layer of old belting between steel and wood, costs \$40.00 and runs on city pavements 800 miles.

MORE WOOD springs. Furniture Mfr. 57(12): 20-21, illus. Dec. 1942. 300.8 F982

MULLIN, SAM E. Wood and glue enlist for war. South. Lumberman 166(2082): 47-48, illus. Jan. 1, 1943. 99.81 So82

Weather-proof, fungus-proof and mold-proof glue which produces a bond stronger than the wood itself, and wood are making inroads into the field of heavy construction.

OUR FOREST resources are contributing to victory. Jour. Forestry 40(12): 909-919. Dec. 1942. 99.8 F768

Proceedings of the Washington Section meeting of the Society of American Foresters, October 16, 1942, Washington, D. C.

Contents: Lumber and the war production board, by Arthur Upson, pp. 909-913; The lumber industry, by Wilson Compton, pp. 914-916;



Lumber procurement for the Army, by F. G. Sherrill, p. 917; Discussion, pp. 918-919.

PHILLIPS, G. W. No tires or gas? Here is the solution. South. Lumberman 165(2081): 232-233, illus. Dec. 15, 1942. 99.81 So82

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In cooperation with U. S. Bureau of the Census.

RISHELL, CARL A. Shortage of "preferred" woods for furniture may broaden the use of lesser known species. South. Lumber Jour. 47(1): 18-19. Jan. 1943. 99.81 So8

Lower grades of well known species and some less well known species as brown ash, soft elm, soft maple, hackberry, pecan, sycamore, etc. are available for the furniture industry. The so-called new uses of wood for springs, bath tubs, gears, pipes, etc. are actually applications of older uses with new scientific improvements.

ROZEMA, C. E. Aircraft from west coast timberlands. Mod. Plastics 20(5): 68-69, 134, 136, illus. Jan. 1943. 309.8 P69

The probability of using west coast woods for aircraft construction to supplant the depleted resources from other sections has led to a study of the west coast equipment for fabricating aircraft plywood, and the processes for making veneers.

SMITH, KENNETH. Redwood in 1942. Calif. Lumber Merchant 21(12): 46. Dec. 15, 1942. 99.81 C12

Redwood production for December 15, 1942 was 103 per cent of that for 1941; shipments, 119 percent, and orders 133 per cent. These figures exceed those for all softwoods covering similar items and dates.

SOWDER, A. M., and MARQUIS, RALPH W. Timber requirements for veneer and plywood. 47 pp., illus., processed. [Washington, D. C.] U. S. Forest service, Oct. 1941. References. 1.962 F4t482

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STEERING with redwood wheels. Mod. Plastics 20(5): 77-81, 136, illus. Jan. 1934. 309.8 P69

Because of its rot-resistance, strength, and good appearance, the pulp from the lumbering of California redwoods is being successfully turned into new and improved steering wheels for trucks and tractors.

U. S. FOREST SERVICE. FOREST PRODUCTS LABORATORY. Some books about wood. U. S. Forest Serv. Forest Prod. Lab. R399, 4 pp., processed. Madison, Wis., Rev. July 1941. 1.9 F761R

WINSLOW, CARLILE P. Wood and war. Jour. Forestry 40(12): 920-922. Dec. 1942. 99.8 F768

Delivered at the 51st annual meeting of the International Concatenated Order of Hoo-Hoo, Milwaukee, Wis., Sept. 10, 1942.

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as timber connectors, glued laminated arches, wartime packaging, accelerated lumber drying, wood and paper-base plastics, and "impreg" and "compreg" processes.

WOOD PLANES train flyers for the army. South. Lumberman 165(2081): 317-320, illus. Dec. 15, 1942. 99.81 So82

Construction of the Beech trainer planes made almost entirely of wood by the Beech Aircraft Corporation, Wichita, Kansas.

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BROOKS, EDWARD M. Lowly scrub oak. Ala. Conserv. 14(7): 3, 12, illus. Jan. 1943. 279.8 All

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Results of experiments conducted by the Department of Lands and Forests of Quebec on types of gas-producers which can operate profitably with wood and charcoal.

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CREOSOTED wood stave pipe and its effect upon water for domestic and irrigation uses. (Conclusion). Wood Preserv. News 20(10/11): 122-125, 128-130, 138-139, 142. Oct./Nov. 1942. 300.8 W853

Reprint of Bulletin No. 1, University of Washington Engineering Experiment Station, Seattle, Washington, 1917.

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GOTTSCALK, F. W. Manufacture and use of fire resistant wood. South. Lumberman 165(2081): 135-138, illus. Dec. 15, 1942. 99.81 So82

PLASTICS coatings make plywood planes weather-proof. Brit. Plastics 14(162): 359-360. Nov. 1942. 309.8 B76



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ARIES, ROBERT S. Chemistry of wood to mould dealers' future. Amer. Lumberman, Jan. 9, 1943, pp. 22-24, illus. 99.81 Am3

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BILLINGTON, PAUL S., and FIEDLER, EDWARD L. The chemical properties of white spruce pulp prepared by the use of phenol. U. S. Forest Serv. Forest Prod. Lab. R1418, 9 pp., illus., processed. Madison, Wis., Nov. 1942. Literature cited. 1.9 F761R

BOLLEN, WALTER B. Decomposition of waste sulfite liquor in soil. Pacific Pulp and Paper Indus. 16(12): 30-34, illus. Dec. 1942. References. 302.8 P11

A preliminary report to determine what results can be expected from the addition of moderate quantities of waste sulfite liquor to the soil.

GREAT BRITAIN. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. FOREST PRODUCTS RESEARCH. A handbook of home-grown timbers. (War emergency ed.) 69 pp., tables. London, 1941. [References] on back cover. 99.79 G792

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HYLER, J. E. Methods of bending plywood. Veneers and Plywood 37(1): 10-11. Jan. 1943. 99.82 V55

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LEICESTER, W. F. "We quote"....; the post-war problem of wood. Amer. Forests 49(1): 38. Jan. 1943. 99.8 F762

From Address before the National Lumber Manufacturers Association at Chicago, on November 18, 1942.

Lists six points urging an after-the-war program of progressive research and cooperation by the wood industry.

U. S. FOREST SERVICE. FOREST PRODUCTS LABORATORY. Procedure for determining the properties of pulpwood. U. S. Forest Serv. Forest Prod. Lab. R1417, 24 pp., illus., processed. Madison, Wis., Oct. 1942. Bibliographical footnotes; references pp. 18, 20. 1.9 F761R

Pt. 1. Outline of procedure; Pt. 2. The physical properties of whole logs; Pt. 3. Physical properties of disc sections of pulpwood; Pt. 4. The determination of the weight of chips per unit of space.

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Objectives, plan of campaign and accomplishments of the Public Relations Department of the Forest Products Industries, Inc., during its first year.
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- TANNIN from western hemlock bark. Timberman 44(2): 30-31, maps. Dec. 1942. 99.81 T484  
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A study of the form, quality and relative volumes of sawmill waste at eleven pine and twenty-nine fir mills of eastern, southern and western Oregon.

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- CANFIELD, R. H. A short-cut method for estimating grazing use. U. S. Forest Serv. Southwest. Forest and Range Expt. Sta. Res. Notes 99, 5 pp., illus., processed. Tucson, Ariz., May 1942. 1.9 F7621R  
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Describes the characteristics of soil and forage by which the rancher may determine the condition of his range.

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Based on information obtained in a two-year Bankhead-Jones Project study of wildland grazing operations in northern Michigan. The conclusions indicate that at least 80 per cent of the wildland in Michigan under public ownership, which varies from dense stands of second-growth forests to expanses of open land with few trees and shrubs, is not suited to grazing use.

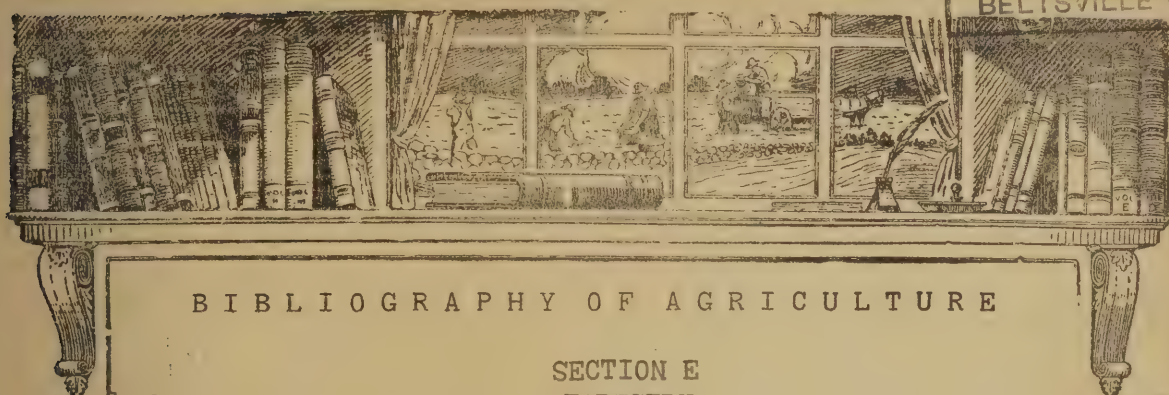






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SECTION E  
FORESTRY

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The Bibliography of Agriculture is issued monthly in six sections.

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Vol. 2

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No. 2

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- FOREST products laboratory adds plywood expert. South. Lumber Jour. 47(2): 28. Feb. 1943. 99.81 So8
- Gus N. Arneson, former Chief of Research, Douglas Fir Plywood Association, has been appointed as principal technologist by the U. S. Forest Products Laboratory.
- GLESINGER, EGON. The impact of the war on forest industries (a preliminary review), Brit. Columbia Lumberman 26(10): 55-57. Oct. 1942. 99.81 B77
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- MAYER-WEGELIN, H. Waldnutzung und forstwirtschaft in der Türkei. Forstarchiv 18(1/2): 1-10, illus. Jan. 15, 1942. 99.8 F7723
- Discussion of forestry in Turkey covering largely methods of cultivation and advantages gained from the utilization of the forests.
- MEMORANDUM re proposed reorganization of the Canadian lumbermen's association. (Submitted June 1941.) Nova Scotia Econ. Council. Rpts., v. 6, no. 55, pp. 111-114. Halifax, N. S., King's printer, 1942. Bibliographical footnotes. 280.9 N85
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OREGON. AGRICULTURAL COLLEGE, LIBRARY. Theses submitted for advanced degrees in the subject of forestry in colleges and universities of the United States. 41 pp., typewritten. [Corvallis] 1942.

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Lumberman 26(8): 25-26, 36, 38. Aug. 1942. 99.81 E77

History of forests and forest industry of North America showing the early importance of Douglas fir in British Columbia trade, and a discussion of the necessity for forest conservation measures particularly for fire protection and reforestation, with some comments on selective logging versus clear cutting and a cooperative forest policy rather than enforced regulation.

#### FOREST ADMINISTRATION AND POLICY

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Lumber producers in the South have organized to work with the government in securing full cooperation of lumberman in the war effort.

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DREWRY, CHARLES B. A model county forest program. Wis. Counties 5(7): 11-12, 18. Jan. 1943.

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GLIESINGER, EGON. Nazis in the woodpile; Hitler's plot for essential raw material. 262 pp., map. Indianapolis, Bobbs-Merrill co., 1942. 280.175 G48

The German plan to extend its control over the forest industries of Europe and the world and the use by the Nazis of recent discoveries in the chemistry of wood.

\*INTERNATIONALE sammlung von forstgesetzen. (International collection of forest laws.) Ztschr. f. Weltforstw. 9(5/6): 369-398, tables. Mar. 1942. Bibliographical footnotes.

LAMBERTS, O. Organization der forstverwaltung. (Organization for forest administration.) Forstarchiv 18(5/6): 49-58. Mar. 20, 1942. 99.8 F7723

LUSSIER, OMER. Résumé de droit forestier domanial (Summary of forestry domanial law.) 4pp., processed. [Québec]. Ministère des terres et forêts, 1938. 99.59 L95

#### National forest program.

MANTEL, WILHELM. Über forschungs und arbeitsweise bei der forsteinrichtung (Forsteinrichtungsmethodik) (Concerning research technique in forest regulation). (Concl.) Allg. Forst u. Jagd Ztg. 118: 10-20, 47-55, 74-80. Jan. - Mar. 1942. Bibliographical footnotes. 99.8 A13

MEXICO. LAWS, STATUTES, ETC. Código forestal de los Estados Unidos Mexicanos. (Code of forestry laws for Mexico.) 365 pp. Mexico, Departamento forestal y de caza y pesca, 1938. 99.59 M57C

NEW FOREST products service plan proposed to War production board. South. Lumber Jour. 47(2): 24. Feb. 1943. 99.81 So8

Plan by the U. S. Forest Service laid before a joint meeting of the Softwood and Hardwood Loggers and Lumber Manufacturers Advisory Committees to the War Production Board on Tuesday, Jan. 19.

RATHBUN, LAWRENCE W. Public policy and private forest management. Forest Notes 7(1): 11-15. Jan 1943. 99.8 F7691

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SABAU, VASILE. Forststatistik in Rumänien. (Forest statistics in Roumania.) Forstarchiv 18(5/6): 65-68. Mar. 20, 1942. Bibliographical footnotes. 99.8 F7723

WASHINGTON'S forestry legislative program. West Coast Lumberman 70(1): 27-28. Jan. 1943. 99.81 W52

Three major bills concerning a new state forest board, forest practices, and the codifying of the forest laws form the forestry legislative program. The text of the Forest Practice Bill is given here.



WILSON, SINCLAIR A. Comparative tax delinquency and reversion in selected counties of the Douglas-fir region, 1932-33 and 1940-41. 7 pp., illus., processed. Portland, Oregon, U. S. Forest service, Pacific northwest forest experiment station, June 1942. 1.9622 P2C73

### FOREST FIRE PROTECTION

BERNIER, G. H. La protection des forêts. 15 pp., processed. [Québec] Ministère des terres et forêts, 1939. 99.51 B45  
National forest program.

Covers prevention and suppression of forest fires.

OFFNER, H. Bekämpfung von grosswaldbränden. (Control of large forest fires.) Forstarchiv 18(7/8): 81-94, illus. Apr. 20, 1942. 99.8 F7723

TENNESSEE warned for 67 years against devouring forest fires. Tenn. Conserv. 7(2): 6, 14. Feb. 1943. 410 T252

Brief history of forest fire protection in Tennessee with some fire statistics on forest land under protection, forest land needing protection, and estimated cost for such protection.

U. S. FOREST SERVICE. Preventing destructive fires in southern woodlands. U. S. Dept. Agr. Farmers' Bul. 1926, 15 pp., illus. Washington, D. C., Feb. 1943. 1 Ag84F

In cooperation with U. S. Extension Service.

Points out reasons given for burning woodlands, ways to reduce fire hazards, and methods and state organizations for fighting forest fires.

U. S. FOREST SERVICE. U. S. Government campaign plan for wartime forest fire prevention for 1943. 17 pp., map, processed. [Washington, D. C.] Dec. 5, 1942. 1.962 A2Un3

In cooperation with the Bureau of Campaigns, Office of War Information.

U. S. OFFICE OF CIVILIAN DEFENSE. Forest fire fighters service; regulations, purpose, organization, duties, training, how to join. 9 pp., diagr. Washington, D. C., July 11, 1942. 173.4 C49Fo

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NIEDERHOF, C. H., and WILM, H. G. Effect of cutting mature lodgepole-pine stands on rainfall interception. Jour. Forestry 41(1): 57-61, illus. Jan. 1943. Literature cited. 99.8 F768

Investigations made in 1941 on 20 silvicultural plots of 5 acres each on the Fraser Experimental Forest in Colorado to measure the amount of rainfall reaching the soil in mature stands of lodgepole-pine stands, and to determine how the quantity is influenced by various intensities of timber cutting.

\*WOELFLE, MAX von. Windverhältnisse im walde. (Wind conditions in the woods.) Forstwiss. Centbl. 64(8): 169-182, illus. Aug. 1, 1942. Bibliographical footnotes.

ZENTGRAF, EDUARD. Sturmeeinwirkungen auf fichtenbestände. (Storm action on spruce trees.) Allg. Forst u. Jagd Ztg. 118: 268-270. Oct. 1942. 99.8 A13

FOREST MANAGEMENT

References on forest entomology are included in Section C, Entomology; references on forest botany in Section D, Plant Science

- ALBRECHT, Fr. An den natürlichen waldverhältnissen an der ostabdachung des südlichen Schwarzwaldes. (On the natural woods condition of the east slope of the southern Black forest.) Allg. Forst u. Jagd Ztg. 118: 138-157. June 1942. Literature cited. 99.8 A13
- BAADER, G. Was leistet der mischbestand? Allg. Forst u. Jagd Ztg. 118: 221-233, tables. Sept. 1942. Bibliographical footnotes. 99.8 A13
- Productivity of mixed stands?
- BADOUX, ERIC. Les cultures de peuplier du Fort (canton de Vaud). Jour. Forest. Suisse 93(2): 33-39, table. Feb. 1942. Bibliographical footnotes. 99.8 J82
- The cultivation of the poplar tree on the property called Le Fort in the Canton of Vaud, Switzerland.
- COOKE, GILES B. California cork. 8pp., illus. [Baltimore, Md.] Crown cork and seal co., 1942.
- "Reprinted from The Crown for January, 1941 and March, 1942."
- Planting and stripping of cork oak trees by subsidiary of Crown Cork & Seal Co.
- COOKE, GILES B. Cork and cork products; the history, source, properties and uses of corkwood. 30 pp., illus. map. Baltimore, Md., Crown cork and seal co., inc., 1942. 99.75 C77
- Reprint of a series of articles which appeared in The Crown during 1938, 1939 and 1941.
- COOKE, GILES B., and JENKINS, SANFORD S. Cork in the South; the romance and renaissance of cork in the Southern states. 8pp., illus. [Baltimore, Md.] Crown cork and seal co., 1942. 99.35 C77C
- "Reprinted from The Crown for April 1942 and May 1942."
- Gives a survey of the cork oak trees now growing through the South.
- COOKE, GILES B. First cork from the South. 4 pp., illus. [Baltimore, Md.] Crown cork and seal co., 1942. 99.35 C77F
- "Reprinted from The Crown for October 1942."
- Approximately 1400 pounds of cork were obtained from 7 large and 7 medium-sized cork oak trees.
- DANNECKER, K. Freiwirtschaft im laudholzwald. Allg. Forst u. Jagd Ztg. 118: 193-210. Aug. 1942. Bibliographical footnotes; references. 99.8 A13
- Economic and cultural management of broadleaf forests.
- DOLL, GILBERT B. Windbreaks for Idaho farms. Idaho Agr. Col. Ext. Bul. 140, 16 pp., illus. Moscow, June 1942. 275.29 Id13
- Educational material on planning, selection of trees for, planting and cultivation of windbreaks for Idaho farms.



EATON, C. B., and HALL, R. C. A mobile paint spray outfit for numbering trees. Jour. Forestry 41(1): 64-66, illus. Jan. 1943. Literature cited. 99.8 F768

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HAUSENDORFF, E. Zum dauerwaldgedanken Alfred Möllers. (Alfred Moller's conception of permanent forests.) Forstarchiv 18(9/10): 117-127, illus. May 15, 1942. Bibliographical footnotes. 99.8 F7723

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KRENN, KARL. Die vorteile des frühen eigriiffs in fichtenbestände. (The advantage of early treatments in spruce stands.) Allg. Forst u. Jagd Ztg. 118: 41-47, illus. Feb. 1942. 99.8 A13

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KUNANZ, HERMANN. Zur statistik der kulturkosten. (On statistics of cultivation costs.) Allg. Forst u. Jagd Ztg. 118: 20-26, illus. Jan. 1942. Bibliographical footnotes. 99.8 A13

LIEFELD, T. A., CHAPMAN, R. A., and SNOW, A. G., JR. What is new in chemical stimulation? AT-FA (Amer. Turpentine Farmers Assoc. Coop.) 5(4): 8-9. Jan. 1943. 309.8 Am3

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LOCKARD, C. R. Viewpoints in farm forestry. Jour. Forestry 41(1): 16-19. Jan. 1943. 99.8 F768

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MUNGER, THORNTON T., and MORRIS, WILLIAM G. Further data on the growth of Douglas-fir trees of known seed source. 12 pp., processed. Washington, U. S. Forest service, Pacific northwest forest experiment station, Apr. 10, 1942. 1.9622 P2F98

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PASCHKE, K. Alterklassenmischung in einem kiefernrevier 4. klasse. (Mixture of age classes in a pine district class 4.) Forstarchiv 18(9/10): 136-146, illus. May 15, 1942. 99.8 F7723

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PFORT, E. Schleppereinsatz im forstbetrieb. (Tractor use in forest management.) Forstarchiv 18(5/6): 58-65. Mar. 20, 1942.  
99.8 F7723

Shows results of use of tractors in forestry in Schönlanke, Prussia.  
PUSTER. Die bestandslücke und ihre bedeutung für bestand und waldbesitz.  
Allg. Forst. u. Jagd Ztg. 118: 237-243. Sept. 1942. 99.8 A13

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National forest program

REINHOLD, GERHARD. Beiträge zur geschichte des plenterwaldes bis zum  
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selection forest since the beginning of the 19th century.) Allg.  
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ROBERTSON, W.M. Effect of mature yellow birth upon spruce and fir  
understory. Pulp and Paper Mag. Canada. 44(1):36. Jan. 1943.  
302.8 P96

Canada. Forest Service. Silvicultural Leaflet No. 13.

RYAN, VICTOR A. Potential cork areas in the United States; the physi-  
cogeographical influence in relation to American cork growing.  
8 pp., map. [Baltimore, Md.] Crown cork and seal co. [1942].  
Literature cited. 99.35 R95

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respect to importance for growth, quality and yield.

SEEHOLZER, M. Gedanken zur natürlichen verjüngung im wirtschaftswalde.  
Allg. Forst u. Jagd Ztg. 118: 57-67. Mar. 1942 Bibliographical  
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SHINGLER, G. P., and McCONNELL, M. C. Suggestions for the producer of  
crude turpentine gum. U. S. Bur. Agr. Chem. and Engin. Naval Stores  
Res. Div. AGE-156, 7 pp., tables, processed. Apr. 3, 1942. Publica-  
tions. 1.932 A2Ag8

Factors entering into the grading of rosin obtainable from gum with  
tables of average yields as found by the Naval Stores Station, Bureau of  
Agricultural Chemistry and Engineering, Olustee, Florida.

TOUCHET, LOUIS. Description géographique et conditions forestières  
d'un secteur de la vallée de l'Outaouais. Forêt Québécoise 5(2):  
96-106. Feb. 1943. 99.8 F79

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VOGDT, O. Wiederherstellung standortsgemässer mischbestände an stelle  
von kiefernreinbeständen im Forstamt Zollbrücken. (Substitution of  
native, mixed stands in Forest District Zollbrücken). Forstarchiv  
18(9/10): 128-136, illus. May 15, 1942. 99.8 F7723

WEAVER, HAROLD. Fire as an ecological and silvicultural factor in the  
ponderosa-pine region of the Pacific slope. Jour. Forestry 41(1):  
7-15, illus. Jan. 1943. Literature cited. 99.8 F768

Points out that present deplorable conditions in this region from  
which fire has been excluded in large areas for 30 to 40 years, and



presents points for the use of fire to keep out less desirable species, to control density of reproduction, insect ravages, etc. Comments, by Arthur A. Brown, pp. 14-15.

WETTSTEIN, W. von. Unterschiede bei nachkommen von Alpenlärchen. Allg. Forst. u. Jagd Ztg. 118: 157-161, illus., tables. June 1942. Literature cited. 99.8 A13

Difference shown among offsprings of Alpine larch.

ZIMMERLE, H. Untersuchungsergebnisse beider schwarzerle. (Results of research on the European black alder.) Allg. Forst u. Jagd Ztg. 118: 297-308, illus. Dec. 1942. Literature cited. 99.8 A13

Tables show increment and yield studies.

### REGENERATION

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FORESTRY problem looms in 1943. Wis. Counties 5(7): 17-18. Jan. 1943.

Concerns the wartime problems of planting the millions of seedling trees provided by the State nurseries for reforestation work in Wisconsin counties.

GABER, G. Untersuchungen an larchenholz aus deutschem und japanischem samen. Allg. Forst u. Jagd Ztg. 118: 255-261, illus. Oct. 1942. 99.8 A13

(Examination of larchwood from German and Japanese seed.)

\*HERTRICH. Natürliche oder künstliche verjüngung. (Natural or artificial rejuvenation.) Forstwiss. Centbl. 64(8): 187-189. Aug. 1, 1942.

ROHMEDER, E. Ergebnisse der forstlichen saatgutforschung als mittel zur ertragssteigerung im walde. Forstarchiv 18(11/12): 165-176. June 15, 1942. References. 99.8 F7723

Results of research on forest seeds as a means of increasing the yield of the forests.

### FOREST MEASUREMENTS

BAUERSACHS, ESVALD. Bestandesmassenaufnahme nach dem mittelstammverfahren des zweitkleinsten stammabstandes. (Inventory of the volume of a stand according to diameter measurements of second smallest trunk distance.) Forstwiss. Centbl. 64(8): 182-186. Aug. 1, 1942

BRIEGLER, PHILIP A. Growth of ponderosa pine by Keen tree class. U. S. Forest Serv. Pacific Northwest Forest Expt. Sta. Forest Res. Notes 32, 15 pp., tables, processed. Portland, Oreg., Jan. 15, 1943. 1.9 F7629Fr

Presents a comprehensive compilation of virgin stand growth rates by Keen tree class for the North Pacific region based on

- increment core and other measurements from 8,000 sample trees on thirty 10-acre permanent sample plots of eastern and central Oregon.
- CARPENTER, R. D. Log purchasing units in northeastern New York state. U. S. Forest Serv. Northeast. Forest Expt. Sta. Tech. Note 44, 3 pp., tables, map, processed. [New Haven, Conn.] May 8, 1941. 1.9 F7322T
- Studies the situation in northeastern New York State where seven different measures of log volume are used in the sale and purchase of sawlogs for an area about 120 miles long and 25 miles wide.
- QUEBEC (PROVINCE) DEPT. OF LANDS AND FORESTS. Dendrométrie. 14 pp., processed. [Quebec], 1939. 99.4 Q3
- National forest program.
- Measurement of height, volume and growth of trees.
- QUEBEC (PROVINCE). DEPT. OF LANDS AND FORESTS. Inventaire et estimation des bois. 15 pp., processed. [Quebec], 1939. 99.4 Q31
- National forest program.
- TISCHENDORF, W. Die neuesten arbeiten und auf sätze aus der holzmassen-ermittlung. (New works and material on volume determination.) Forstarchiv 18(3/4): 17-32. Feb. 20, 1942. References. 99.8 F7723
- ZIMMERLE, H. Zuwachsuntersuchungen bei der fichte und tanne im Württ. Forstbezirk Pfalzgrafenweiler. (Concl.) Allg. Forst u. Jagd Ztg. 118: 32-41, 67-74, 92-105, illus., tables. Feb. - Apr. 1942. Bibliographical footnotes. 99.8 A13
- Studies of growth and yield in the pine and fir forests of the Pfalzgrafenweiler Forest District in Württemberg.

### FOREST RESOURCES

- HEBER, KARL. 15 Jahre naturgemässe waldwirtschaft in Bärenfels. (Concl.) Allg. Forst u. Jagd Ztg. 118: 233-237, 261-268, 283-295, illus., tables. Sept.-Nov. 1942. 99.8 A13
- History of 15 years of natural forestry in Bärenfels with illustrations showing increment and yield.
- HOLDRIDGE, L. R. The pine forests of Haiti. Caribbean Forester 4(1): 16-22, processed. Oct. 1942. Bibliographical footnotes. 1.9622 T2023
- Because of its wide range, and timber and naval stores products, the pine is one of Haiti's most important forest resources. A long-range program designed primarily to care for the timber needs of the country is now providing proper management and utilization practices for this resource.
- HOUGH, A. F. Norway spruce for pulpwood. Jour. Forestry 41(1): 66-68. Jan. 1943. Literature cited. 99.8 F768
- Experiments show that Norway spruce can be grown as a profitable forest crop on carefully selected sites on the northern Allegheny Plateau to supply pulpwood for the large number of spruce-using pulp and paper mills in the Northeastern States.
- JUÁREZ HERRERA, RODRIGO. Estudio dasonómico formulado para regir los aprovechamientos del bosque ejidal y comunal de Santiago Cuautenco, Amecameca, México. Méx. Forest. 20(10/11/12): 77-84. Oct./Nov./Dec. 1942. 99.8 M57
- Study of the common and ejidal forest land of Santiago Cuautenco,



Amecameca, Mexico, from a geographic, economic and sociological viewpoint in order to determine the best utilization of the forests. MACON, JOHN W., and DIEMER, J. A. Preliminary statement on the forest situation in Oneida county, Wisconsin; a forest survey and new public domain progress report. 10 pp., illus., tables, processed. St. Paul, Minn. U. S. Forest service, Lake states forest experiment station, March 1941. 1.9622 L2P91

MEYER, H. ARTHUR. Forestry and forest resources in Mexico. Caribbean Forester 4(1): 1-8, map, processed. Oct. 1942. 1.9622 T2C23

Exploitation has reduced Mexico's forest resources, but protective legislation and movements, and forestry education are now encouraging greater conservation. Most of the tree species have been identified, but the character and extent of the distinct forest types are not well known.

MUNGER, THORNTON T. Vital statistics for some Douglas-fir plantations. Jour. Forestry 41(1): 53-56. Jan. 1943. Bibliographical footnotes. 99.8 F768

Statistics taken from 12 plantations with a 26-year detailed history show a continuation of post-establishment losses, due to a variety of reasons, with mutilations occurring to many of the surviving trees.

OLIVEIRA BOLEO, JOSÉ DE. Do sobreiro e da cortiça. (Cork oak and its bark.) Junta Nac. da Cortiça [Lisbon] Bol 48, pp. 5-6. Oct. 1942. 309.9 J96

On the geological features that make southern Portugal best suited for the cultivation of cork oak, and the commercial importance of the industry to the country.

STEVENS, JAMES. The forest giant goes to war. Christian Sci. Monitor. Weekly Mag. Sect., Jan. 9, 1943, pp. 4-5, 15, illus.

A review of the forest situation in the Douglas fir region reveals that some of the better grades of "the most critical species of lumber in the United States for war purposes" are being overcut, but that conservation and protection measures are being observed to the extent that adequate supplies of this timber will be available for the peace.

U. S. FOREST SERVICE. PACIFIC NORTHWEST FOREST EXPERIMENT STATION. Forest statistics. U. S. Forest Serv. Pacific Northwest Forest Expt. Sta. Forest Survey Rpts. 83, 84, 86, 87, illus., maps, processed. Portland, Oregon, 1941-1942. 1.9622 P2F76

Reinventories present forest statistics to comply with changes in forest type areas, timber volume, restocking of deforested land and land ownership that have occurred since the 1934 reports.

No. 83. Forest statistics for Polk County, Oregon. 14 pp. May 5, 1941.

No. 84. Forest statistics for Jefferson County, Washington. 19 pp. July 10, 1941.

No. 86. Forest statistics for Mason County, Washington. 20 pp. Aug. 20, 1941.

No. 87. Forest statistics for King County, Washington. 18 pp. Apr. 25, 1942.

LUMBERING

ALASKA spruce. Timberman 44(4): 10-13, illus. Feb. 1943. 99.81 T484

Many logging and transportation difficulties hinder the carrying out of the Alaska Spruce Log Program of supplying one hundred million feet of spruce logs a year from the Tangass National Forest of Alaska. This program is administered by the Alaska Region of the U. S. Forest Service.

BRUNDAGE, F. H. More logs for war needs. Timberman 44(4): 46, 48 60-61. Feb. 1943. 99.81 T484

Views some of the phases of lumbering in the Pacific Northwest considering log control by allocation, transportation, labor shortage and overcutting.

CANADIAN foresters; the Canadian forestry corps run a sawmill somewhere in Scotland. Wood 7(12): 201-203, illus. Dec. 1942. 99.82 W855

CHALLENGER, J. W. Power saw development. South. Lumberman 166(2085): 44, 46, illus. Feb. 15, 1943. 99.81 So82

Five years of the use of portable, power-chain saws for falling and bucking timber have resulted in the development of an organization at Bloedel, Stewart & Welch Ltd., in British Columbia, capable of handling almost all power saw equipment and problems. A one-man light weight power falling machine is expected to be in usage soon.

CROSBY, N. S. Lumber situation in Lake states area. Miss. Val. Lumberman 44(4): 27-28. Jan 22, 1943. 99.81 M69

"Forest products engineer gives comprehensive review of production problems of past year in North Central region and makes some statement on future; stresses importance of replenishing dealer stocks."

ELLIOTT, CHARLES. The Black warrior goes to war and the purpose of one national forest is fulfilled. Amer. Forests 49(2): 55-57, 92-93, illus. Feb. 1943. 99.8 F762

The Black Warrior, or the John B. Bankhead, National Forest of Northern Alabama is to be cut at the rate of 7,500,000 feet of lumber a year for sixteen years, and after that on an increased basis. Incomes and tax returns from lumber production and sales will bring prosperity to a region of abandoned farms. Under the management of the Grayson Lumber Co. of Birmingham, Ala., a permanent town is being constructed for employees.

HILF, H. H. Holzerhaltung bei sommergefallten kiefern. Forstarchiv 18(13/14): 185-194, illus. July 15, 1942. Bibliographical footnotes. 99.8 F7723

On the preservation of pine trees felled during the summer months.

HILF, H. H. Der Holztransport im europäischen ostraum als aufgabe der forschung. Forstarchiv 18(15/16): 205-213. Aug. 15, 1942. References. 99.8 F7723

Transportation of wood in eastern Europe as a subject for forest research.

JOHNSON, WALTER S. Lumberman suggests plan to increase production. West Coast Lumberman 70(1): 34. Jan. 1943. 99.81 W62

A letter written to Arthur Upson, Director of the Lumber and Lumber Products Division of the War Production Board, suggesting cooperation with present lumber operators in providing workmen and



LAMP, H. Das grissbeil: ein werkzeug zum setzen von schichtholz.  
Forstarchiv 18(3/4): 33-34, illus. Feb. 20, 1942. 99.8 F7723.

Describes an implement for stacking cordwood.

MARCKWORTH, GORDON D. Power vs. hand falling. Timberman 44(4): 50, 52, illus. Feb. 1943. 99.81 T484

In a study of two methods of cutting ponderosa pine areas in Washington State it was found that stumps of trees felled with power saws averaged ten inches lower than those cut with hand saws.

MARCKWORTH, GORDON D. Ties for total war; small mills help railroads keep troops and materials moving. Amer. Forests 49(2): 67-69, 96, illus. Feb. 1943. 99.8 F762

Morton, Washington, is the tie center of the nation, shipping an average of at least 10,000 ties daily from its 50 or so small mills.

PACIFIC LOGGING CONGRESS. Proceedings, 33d, January 21-23, 1943.

Timberman 44(4): 18-20, 22, 24, 26, 28, 30, 32, 36, 39, 42, 44, 94, illus. Feb. 1943. 99.81 T484

Papers, discussions, resolutions and notes and highlights of the congress convened in Portland, Oregon, January 21 to 23, to dedicate its efforts to producing the vast quantities of lumber needed for the wartime jobs.

THE SANDUST FUSILIERS. Brit. Columbia Lumberman 26(6): 49-50. June 1942. 99.81 B77

Title given to the Canadian Forestry Corps, a military unit, sent to Scotland to obtain timber for England.

TELFORD, C. J. Operating small sawmills in wartime. U. S. Dept. Agr. Misc. Pub. 509, 42 pp., illus. Washington, D. C., 1943. 1 Ag84M

Emphasizes methods for maximum production with minimum equipment, and does not treat of the installation of new equipment as much as of the moving or rebuilding of established mills.

TOWER, G. EUGENE. Systematic inspection and scheduled maintenance. West Coast Lumberman 70(1): 38, 72e, illus. Jan. 1943. 99.81 W52

On the application of systematic inspection and scheduled maintenance procedures to lumbering operations to avoid unnecessary wearing out of equipment.

VAN RADEN, H. B. Care and maintenance of logging trailers. West Coast Lumberman 70(1): 53. Jan. 1943. 99.81 W52

Points out the various parts of the logging trailer with suggestions as to their proper care.

#### PRODUCTS UTILIZATION

ALLWARD, G. A. Plywood in aircraft construction. Mech. Engin.

[New York] 65(1): 14-16. Jan 1943. 291.9 Am3J

A discussion of the veneers, glues and gluing that enter into the manufacture of aircraft plywood, and of the utility of plywood as a structural material for aircraft.

B. Exploitations de guerre dans les forêts du Chenit en 1941. (Wartime exploitations in the forests of Chenit in 1941.) Jour. Forest.

Suisse 93(2): 41-43. Feb. 1942. Bibliographical footnotes.

99.8 J82

Volume of forest products cut has been almost doubled.

BARNES, JOHN S. Making plywood with multidirectional pressure. Mech. Engin. [New York] 65(1): 17-20, illus. Jan. 1943. 291.9 Am3J

The bibliography at back of article lists background material on veneer and plywood as well as engineering data on plywood and molded plywood.

BENE, JOHN. Case for airplane plywood. Timberman 44(3): 67-68, 87, illus. Jan. 1943. 99.81 T484

Concerns points in the manufacture of airplane plywood such as amount of available raw material, difficulty caused by too rigid specifications for species, and necessity for extreme precision in fabrication.

BENSON, H. K. Chemurgic use of the forest crop. Chemurg. Digest 1(24): 188-189, illus. Dec. 31, 1942. 381 N213 Na

Besides experiments in cellulose and lignin possibilities, other advances include the extraction of cork from Douglas fir bark, and making of metallurgical wood coke from forest waste, and tannin from hemlock bark waste. The Washington State Planning Council is actively promoting chemical wood research.

BUILDING 1500 plywood boats. West Coast Lumberman 70(1): 40, illus. Jan. 1943. 99.81 W52

Lifeboats for Liberty Ships made of six-inch-wide veneer strips, laid diagonally in criss-cross fashion, forced into shape by rubber balloons, and bonded with resin are found to out-perform the standard, steel lifeboats now on use on such ships.

BURNS, L. V. Roofing shingles in Jamaica. Caribbean Forester 4(1): 9-15, processed. Oct. 1942. 1.9622 T2C23

Takes up the advantages and disadvantages in the use of shingles, the woods used, method of preparation, costs, and local shingle mills.

CANADIAN lumber for Scotland. Canada Lumberman 63(3): 31-32. Feb. 1, 1943. 99.81 G16

Spruce and Douglas fir from Canada will be needed in the post-war plans for the building of 400,000 houses in Scotland.

DAVIS, ELRICK B. Wood magicians go to war. Miss. Val. Lumberman 74(4): 32-34, illus. Jan. 22, 1943. 99.81 M69

"The lumber handled in thousands of yards comes from the same trees which could have produced hardware, sugar, cattle fodder, vanilla flavoring, yeast, motor fuel or clothing."

FOREST products form basis of many materials far removed from field of lumber. Brit. Columbia Lumberman 26(5): 30, 38, 40. May 1942. 99.81 B77

Plastics, lacquers and varnishes, cellophane, lac and gum arabic, guttapercha and kapok are some materials from wood or its constituents.

FRIEDMAN, LEO, and EZELL, A. I. Composition cork from Douglas fir. Timberman 44(4): 14-16, 54-55, illus. Feb. 1943. Bibliographical footnotes. 99.81 T484

Report on experiments in drying, bonding and compressibility tests for making Douglas fir cork granules into composition cork.

HALLAUER, FRANK J. Lumber requirements on the farm; a progress report of the Forest survey. 75 pp., illus., maps, processed. [Washington, D.C.] 1942. Bibliographical footnotes. 1.962 F4L972

This publication, one of a series of similar progress reports for



primary forest products, estimates lumber requirements for farm construction, including new construction and maintenance.

HARWOOD-JONES, JOHN. Wooden wedding. Brit. Columbia Lumberman 26(5): 51-52, illus. May 1942. 99.81 B77

Application of plastic-bonded plywood to aircraft construction with references to its many other uses.

HERRICK, GEORGE. Plywood in the "shape" of planes to come. Veneers and Plywood 37(2): 6-8, illus. Feb. 1943. 99.82 V55

Aircraft builders and airline operators are interested in plywood as material for military usage now, and after Victory for passenger, cargo and private transport planes. For such usage plywood must continue to improve, particularly in overcoming its chief drawback that of "expansion and contraction under atmospheric changes."

HOYLE, RAYMOND J. The effect of war on the production and use of lumber. South. Lumberman 166(2085): 41-43. Feb. 15, 1943. 99.81 So82

KEITH, L. P. Modern timber connector construction. Brit. Columbia Lumberman 26(7): 55-56. July 1942. 99.81 B77

History of the use of modern timber connector construction, discussing its early European adoption and our later acceptance and utilization.

KETCHUM, VERNE. Fabrication of laminated timber members. Civil Engin. 13(2): 76-79, illus. Feb. 1943. 290.8 C49

Presented before the Structural Division at the Fall Meeting of the American Society of Civil Engineers, held jointly with the Engineering Institute of Canada in Niagara Falls, Canada.

General information on design and manufacture of laminated timbers. KLEMIN, ALEXANDER. Problems in the use of plywood in airplane construction. Mech. Engin. [New York] 65(2): 105-109, illus. Feb. 1943. 291.9 Am3J

LOUTTIT, JAMES E. Charcoal and carbon from food waste. Chemurg. Digest 2(2): 14-15. Jan 30, 1943. 381 N213Na

Most of the charcoal produced in the United States comes from hardwood, but the waste from the softwoods of the West could be made to produce charcoal and other carbon products to fulfil the requirements and conditions of the potential markets of the Northwest.

McGOWIN, EARL M. Wood and the war. South. Power and Indus. 61(2): 87-89, illus. Feb. 1943. 291.8 So8

Recent developments in modern timber connector and laminated wood construction have greatly expanded the use of lumber, including southern pine timber, for thousands of military needs.

MARQUIS, RALPH W. Lumber requirements for shipping purposes (box, crating and dunnage lumber); a progress report of the Forest survey. 77 pp., illus., processed. [Washington, D. C.] U. S. Forest service, Sept. 1942. References. 1.962 F4L973

MEXICO, DIRECCION FORESTAL Y DE CAZA. Directorio general de explotadores de productos forestales de la Republica Mexicana. 366 pp., processed. Mexico, D. F., 1940. 225 M573

For each forest product gives such information as species, name of exploiter and of enterprise, possible annual yield, etc.

MOLDED plywood planes. Timberman 44(3): 70-71, 91, illus. Jan. 1943. 99.81 T484

The Vidal method for cooking wood and plastics into any kind of shape has developed into a successful process with many possibilities.

MORE timber posts used for electric fencing. Canada Lumber 63(3): 33. Feb. 1, 1943. 99.81 C16

Shortage of steel has increased use of electric fences.

PERRY, R. S. War restores Sitka spruce to prominence. Brit. Columbia Lumberman 26(5): 54-55. May 1942. 99.81 B77

Many favorable characteristics and combinations of suitable properties make Sitka spruce (*Picea sitchensis* (Bong.) (Carr.)) a versatile material for economic uses, foremost among which is its value for aircraft material.

ROZEMA, CHARLES E. West coast woods and aircraft plywood. Timberman 44(3): 60, 62, 64, 74, illus. Jan. 1943. 99.81 T484

First of a series of articles on aircraft plywood and its manufacture, covering stock selection, special equipment needed, and processes of manufacturing.

STARK, E. W. Sugar from wood. Chemurg. Digest 1(24): 187. Dec. 31, 1942. 381 N213Na

Wood sugar and yeast factories are in operation in Europe and are being planned for American industry.

TROTTER, H. The common commercial timbers of India and their uses. Rev. ed. 234 pp., plates. New Delhi, Government of India press, 1941. 99.79 T752

Covers seasoning treatments and wood preservation in use in India, description of physical properties and uses of common species of wood, and those recommended for specific uses.

WOOD; manpower, not resources, now puts it on the war's long list of shortages. Life 14(1): 53-61, illus. Jan. 4, 1943.

Photographic essay on wood, its availability, and applications and developments in the field of plywood, as a substitute or replacement for other materials, in engineering connector construction, etc.

WOOD takes to the skies again. Furniture Mfr. 58(1): 8-9, 31-32, illus. Jan. 1943. 300.8 F982

Cites examples of the use of plywood for airplanes in several countries with indication of further developments in the United States, and points out the many advantages of wood for this usage.

#### WOOD AS FUEL

BRATTON, ALLEN W. The production of hogged wood from Connecticut hardwoods. U. S. Forest Serv. Northeast. Forest Expt. Sta. Tech. Note 41, 4 pp., processed. [New Haven, Conn., Mar. 31, 1941] 1.9 F7622T

Tests to determine costs of hogging wood in different lengths, volume of chipped wood per unit of stacked and solid-wood volume, and to devise means of improving the operation of a hog.

U. S. FOREST SERVICE. Wood and sawdust burning equipment for domestic purposes. 4 pp., processed. Washington, D. C., 1942. 1.962 I2W85

In cooperation with the U. S. Extension Service.

A partial list of firms handling wood- and sawdust-burning equipment.



THE UTILIZATION of wood for fuel. (Submitted December 1941.) Nova Scotia Econ. Council. Rpts., v. 6, no. 59, pp. 134-142, illus. Halifax, N. S., King's printer, 1942. Bibliographical footnotes. 280.9 N85

Examination of the extent to which wood and wood waste could be used to meet the fuel shortage in Canada with tables giving statistics on lumber production and estimates of wood waste.

#### WOOD PRESERVATION

GROENOU, HOYTE BROESE van. De creosoteering van beukenhout en de factoren, die daarop invloed uitoefenen. 176 pp., illus. Delft, Naamlouze vennootschap W. D. Meinema, [1933?]. Bibliography, pp. 166-173. 300 G89

Notes the problems involved in the creosoting of beech.

PEID, DAVID. Creosote penetration in tabonuco wood as affected by preliminary boiling treatments in organic solvents. Caribbean Forester 4(1): 23-34, illus., processed. Oct. 1942. Bibliographical footnotes. 1.9622 T2C23

Deals specifically with the treating schedules and problems involved in the preservation of tabonuco (*Dacryodes excelsa* Vahl) one of the more important species of wood in Puerto Rico.

VERBALL, ARTHUR F. Sap stain chemicals for emergency use. South. Lumberman 166(2085): 64-65, table. Feb. 15, 1943. 99.81 S082

Study to determine what and how much of non-critical chemicals can be used in sap stain control.

#### WOOD TECHNOLOGY

AMERICAN SOCIETY FOR TESTING MATERIALS. 1942 book of A.S.T.M. standards including tentative standards. Pt. II, Nonmetallic materials - constructional. 1482 pp., illus. Philadelphia, Pa., 1942. 290.9 Am34S

Timber and timber preservatives, pp. 590-703.

GRIFFIN, HARRY P. To explore wood's new horizons. Calif. Lumber Merchant 21(15): 24-25. Feb. 1, 1943. 99.81 G12

Weyerhaeuser Timber Company has completed a new \$100,000 laboratory at Longview, Washington, for exploring the commercial possibilities of wood from the standpoint of the chemist, the physicist, and the engineer.

HEPTING, GEORGE H., ROTH, ELMER R., and LUXFORD, R. F. The significance of the discolorations in aircraft veneers: yellowpoplar. U. S. Forest Serv. Forest Prod. Lab. Mimeo. 1375, 8 pp., processed. [Madison, Wis.] Nov. 1942. 1.9 F761R

U. S. Bureau of Plant Industry, Division of Forest Pathology, Asheville, North Carolina, in cooperation with the Forest Products Laboratory.

Tests the toughness of discolored wood.

MARTENY, WILLIAM W. Fluorescence of the extractives of wood. Paper Trade Jour. 116(6): 27-32, illus. Feb. 11, 1943. 302.8 P196

Presented at the Fall Meeting of the Technical Association of the Pulp and Paper Industry, in Boston, Mass., Sept. 29-Oct. 1, 1942.

"... undertaken to examine more carefully the application of fluorescence methods to the extractives of wood, and to develop and apparatus capable of measuring objectively and quantitatively the intensity and spectral distribution of the fluorescent light."

SCHEFFER, THEODORE C., and HANSBROUGH, JOHN R. The significance of the discolorations in aircraft veneers: sweetgum. U. S. Forest Serv. Forest Prod. Lab. Mimeo. 1376, 8 pp., illus., processed. Madison, Wis. Oct. 1942. 1.9 F761R

U. S. Bureau of Plant Industry, Division of Forest Pathology, Madison, Wisconsin, in cooperation with the Forest Products Laboratory.

Tests the toughness of discolored wood.

TIEMANN, HARRY D. The storage of kiln-dried lumber. South. Lumberman 166(2085): 59-60. Feb. 15, 1943. 99.81 So82

Explains suitable methods to prevent the reabsorption of moisture by kiln-dried wood and gives a chart showing humidity-moisture relation.

## WOOD-USING INDUSTRIES

BARROS BERNARDO, HERNANI, de. Subsídios para o estudo da indústria corticeira. Junta Nac. da Cortiça. [Lisbon] Bol. no. 46, pp. 19-24; no. 47, pp. 10-15; no. 48, pp. 14-18; no. 49, pp. 13-17, illus., map. Aug.-Sept. 1942. 309.9 J96

The general trend in the cork industry of Portugal is shown by factory taxation records ranging from 1877 to 1940 with some gaps in the records. Graphs illustrate the development of the industry, and its main location changes. Recommendations are made for greater utilization of waste products, and for the centralization of the industry.

Summary in English at back of each issue.

BRAZIL'S paper industry. Brazil, no. 171, pp. 15-17. Feb. 1943. 280.8 B732

In 1941 Brazil's paper industry produced 128,770 tons of paper whereas in 1926 it had produced only 18,105 tons. A substantial part of the raw material for the manufacture of paper has previously been imported, but the Federal Government is planning the establishment of a large cellulose plant at Paraná which is expected to supply about 80 percent of the wood pulp needed for newsprint.

MACHADO, JOÃO BAPTISTA. Evolução da exportação da cortiça nacional, (1928-1941). (Cont.) Junta Nac. da Cortiça [Lisbon] Bol. no. 48, pp. 11-13; no. 49, pp. 17-21, illus. Oct.-Nov. 1942. 309.9 J96

Tables show cork production in Portugal from 1916 to 1937, and cork exports from 1928 to 1941. The influence of the war is shown by the decrease of imports by England and Germany from 1938 on and by the corresponding increase by the United States at that time not in the war.

NEUBRECH, W. LeROY. Paper feels the pressure. U. S. Dept. Com. Dom. Com. 31(6): 19-22, diagr. Feb. 11, 1943. 157.54 D713

Because of production problems of which labor shortage is foremost, and of restrictive measures curtailing output, the pulp and paper industry as a whole will produce less paper in 1943 than in peak periods of 1941 and 1942. However, mills producing essential goods will continue to operate at close to capacity limits.

NEUBRECH, W. LeROY. Pulp and paper industry in 1943. U. S. Dept. Com. Dom. Com. 31(5): 13. Feb. 4, 1943. 157.54 D713

With restrictions placed on the pulp and paper industry from



manufacturers to distribution, it is estimated that sufficient quantities of paper and paperboard will be available to meet both war and essential civilian needs.

WHEELER, BAYARD O. Instability in Douglas fir lumber production. Wash. [State] Univ. Northwest Indus. 2(4): 1-8, tables, processed. Jan. 1943. Bibliographical footnotes. 280.8 N812

Traces cycles of fir production, the general demand for fir lumber and the portion of it going into construction, to show the close and therefore fluctuating association between fir production and building activity.

#### RANGE MANAGEMENT

U. S. DEPT. OF AGRICULTURE. INTERBUREAU COORDINATING COMMITTEE ON POST-WAR PROGRAMS. Range land conservation and development in the post-war period. 28 pp., processed. Washington, D. C., May, 1942. Selected bibliography. 1.90 C2In8Pra

Highlights of the range resource situation and problem, and an indication of capital improvements and other measures suggested for post-war planning.

WOODFORD, R. C. Improvement of grazing grounds in Assam. Indian Farming 3(8): 428-429. Aug. 1942. 22 In283

Information on top cultivation, top dressing, and other matters as number of cattle to allow per acre, common grazing grasses, etc.

#### WILDLIFE

SCHILLING, ART. Scientific forest management best bet for abundant wildlife. Tenn. Conserv. 7(2): 3, 15. Feb. 1943. 410 T252

Both the forest and the game crop should be harvested on a sustained yield basis.

SMITH, CLARENCE F. Relationship of forest wild life to pine reproduction. Jour. Wildlife Managt. 7(1): 124-125. Jan. 1943. 410 J327

Points out some of the smaller forms of wildlife that feed on three species of western pines: western yellow pine, Jeffrey pine and sugar pine.

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Section B, Agricultural Engineering. Supersedes Current Literature in Agricultural Engineering.

Section C, Entomology. Supersedes Entomology Current Literature.

Section D, Plant Science. Supersedes Plant Science Literature.

Section E, Forestry. Continues Forestry Current Literature, which ceased publication with v. 7, no. 2, Mar.-Apr. 1940.

Section F, Food Processing and Distribution.

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## BIBLIOGRAPHY OF AGRICULTURE

SECTION E  
FORESTRY

Vol. 2

March 1943

No. 3

GENERAL FORESTRY

L'ASSOCIATION FORESTIERE QUÉBÉCOISE, INC. IVe. rapport annuel...1942.  
Forêt Québécoise 5(3): 124-130, 139-167. Mar. 1943. 99.8 F79

Covers the organization and activities of the regional circles and the 4-H clubs, publication of Association bulletins and the increase in circulation of La Forêt Québécoise.

AUSTRALIA. COMMONWEALTH FORESTRY BUREAU. Annual report, 1940.  
16 pp. Canberra, 1941. 99.9 Au723A

CARLIGREN, MAURITZ, and others. Skogsbruk och skogsindustrier i norra Sverige. (Forestry and forest industry in northern Sweden.) 541 pp., illus. Uppsala, Almqvist & Wiksells boktryckeri-A,-B, 1925.

References. 99.66 Sk5

Contents: Norrland såsom industriland, (Norrland as an industrial country), by A. G. Högbom, pp. 7-16; Norrländsk skogslagstiftning (Forest laws in Norrland), by Mauritz Carlgren, pp. 17-76; Skogsvarden (Forest management), by Mauritz Carlgren, pp. 77-94; Skogstillgångar och avverkning, (Transportation and lumbering), by Gunno Kinnman, pp. 95-156; Flottning (Log floating), by Gunno Kinnman, pp. 158-196; Sågverksindustrien (Saw mill industry), by Otto Hellström, pp. 197-352; Den norrländska trämasse- och cellulosaindustrien (The pulp and cellulose industry in Norrland), by Karl Nyström, pp. 353-500; [and] Träkolstillverkningen i Norrland (Charcoal industry in Norrland), by Harry von Eckermann, pp. 501-532.

EDLIN, H. L. A salt storm on the South coast. Quart. Jour. Forestry 37(1): 24-26. Jan. 1943. 99.8 Q2

Points out conditions causing the greatest damage from the abnormal precipitation of sea salt, and the extent to which they may be anticipated and guarded against.

GREEN, F. J. The training of foresters for post-war afforestation on private estates. Quart. Jour. Forestry 37(1): 38-43. Jan. 1943. 99.8 Q2

Emphasizes the need for practical training in forest education, and designates four grades of foresters with training and qualifications for each.

GUISE, CEDRIC H. Statistics from schools of forestry for 1942: degrees granted and enrollments. Jour. Forestry 41(2): 87-91. Feb. 1943. 99.8 F768

Tables giving information on the following points have appeared annually in the Journal of Forestry since 1934: (1) number of degrees granted currently from the schools offering instruction in professional forestry; (2) total number of degrees granted annually since 1900; (3) total undergraduate enrollments since 1902; (4) current statistics of enrollments at each school; and (5) current trends in enrollments.



KNUCHEL. Verzeichnis der seit dem jahre 1929 von der abteilung für forstwirtschaft an der ETH veranstalteten öffentlichen vorträge. Schweiz. Ztschr. f. Forstw. 93(10): 261-262, table. Oct. 1942. 99.8 Sch9

List of the public lectures delivered at the Swiss technical high school by the Division of Forestry since 1929.

KOTOK, E. I., and HAMMATT, R. F. Ferdinand Augustus Silcox. pp. 240-253. 120 Si33

Reprinted from Public Administration Review, vol. II, no. 3, summer 1942.

An interpretative biography of a forester and public figure who was Chief of the U. S. Forest Service, 1933-1939.

LEIBUNDGUT. Bericht über die im winter 1941/42 an der ETH durchgeführten forstlichen diskussionsabende. (Concl.) Schweiz. Ztschr. f. Forstw. 93(9/10): 232-235, 252-261. Sept./ Oct. 1942. 99.8 Sch9

Report of a series of lectures on forestry delivered at the Swiss technical high school during 1941/42.

MICHIGAN. DEPT. OF CONSERVATION. Eleventh biennial report, 1941-1942. 326 pp., illus. [Lansing] 1942. 279.9 M58

Division of Forestry, pp. 295-326. Discusses management, improvement, nursery operation, reforestation, sales and permits, research, cooperation and recreation.

MONEY does grow on trees. Nation's Business 30(12): 50, 76-77, illus. Dec. 1942. 286.8 N212

MORALES y SANCHEZ, AUGUSTO. Reseña forestal hondurena. Rev. de Agr. [Costa Rica] 14(12): 563, 565, 567. Dec. 1942. 8 Es1

Largely on the pine tree, the national tree of Honduras, and on the work of the Botanical Garden.

NEW YORK STATE COLLEGE OF FORESTRY, SYRACUSE UNIVERSITY. Annual report, 1941/1942. 73 pp. Albany, 1943. (Legislative Document (1943) no. 19) 99.08 N48An

A record of the various activities of the college in teaching, extension work, research and public service for 1941/1942.

OXFORD UNIVERSITY. IMPERIAL FORESTRY INSTITUTE. Eighteenth annual report, 1941/1942. 12 pp. Oxford, Holywell press, ltd., 1942. 99.08 OX23

SOUTH AFRICA. DEPT. OF AGRICULTURE AND FORESTRY. DIVISION OF FORESTRY. Annual report, 1940/1941. 18 pp. Pretoria, 1941. 99.9 So84R

On the constitution and management of State forests, research, imports and exports of wood, and statistics.

U. S. FOREST SERVICE. List of state forestry agencies. U. S. Forest Serv. B-2, 5 pp., processed. Washington, D. C., Jan. 2, 1943. 1.9 F7681B

#### FOREST ADMINISTRATION AND POLICY

FROST, FINN. Forests and forestry in Norway. Forestry Abs. 4(3): 143-146, illus. 1943. References. 241.01 Im7

About 25 percent of the land area of Norway is woodland with coniferous forests making up 80 percent of the volume of timber. Norway spruce and Scots pine are the most important conifers. In forest policy a trend toward restricted cutting and better management has been in evidence in recent years. The capacity of the wood-using industries for surpassing the annual increment of the

forests has been a factor in creating more interest in afforestation and silvicultural practices.

HAYGOOD, TYLER F., and DAY, BESSE B. Federal real estate and property tax rates. 13 pp., tables, processed. Washington, D. C., U. S. Forest service, Division of forest economics, Mar. 15, 1942.  
1.962 F4F31

On title page: Forest Taxation Inquiry.

Compares property tax rates in jurisdictions having much Federal ownership with those having little or none in order to determine whether large holdings cause an undue hardship to local taxpayers. Results show that the tax burden on rural property, as measured by average tax rates, is not relatively high.

HUBBARD, J. H. State forest protection; growth and responsibilities. Conserv. Volunteer 5(27): 21-24. Dec. 1942. 279.8 C765

ISE, JOHN. Forestry. In Eldridge, Seba. Development of collective enterprise; dynamics of an emergent economy. Ch. 13, pp. 211-226, tables. Lawrence, Kans., University of Kansas press, 1943.  
References. 280.12 EL2D

History of the conservation movement in the United States beginning as early as 1691 with efforts made by the British Government to preserve timber in the colonies, through the establishment of national forest reserves largely under the promotion of Gifford Pinchot and President Theodore Roosevelt. Closes with a discussion of the administration of the forest reserves and of the tendency of the states toward acquiring more forest lands.

McCULLOCH, W. F. Forest production without forest destruction. West Coast Lumberman 70(2): 51-52. Feb. 1943. 99.81 W52

Through the cooperation of interested foresters and the continuous development of the Oregon Forest Conservation Act, it is hoped that the theme of the Western Forestry and Conservation meeting for December, "Forest Production without Forest Destruction," may be accomplished.

SHIRLEY, HARDY L. Opportunities in forestry. Jour. Forestry 41(2): 83-86. Feb. 1943. 99.8 F768

In spite of the growth of the use of wood substitutes from 1929 to 1940, wood remains a basic raw material for which new industrial and chemical uses are constantly being found. Sustained yield management, public regulation in which local communities participate, and economic interdependence of nations for raw materials are subjects for consideration of American foresters in post-war planning.

#### FOREST FIRE PROTECTION

BONEBRAKE, D. B. Forest fires shouldn't be victory garden by-product! W. Va. Conserv. 6(12): 12-13, 18. Mar. 1943. 279.8 W524

Interprets some of the state fire laws of West Virginia.

CLEARWATER TIMBER PROTECTIVE ASSOCIATION. Thirty-fifth and thirty-sixth annual reports, 1941-1942. 54 pp. [Orofino, Idaho] 1943.  
99.9 C68

Includes financial statements, fire reports, and other summaries of activities.

FAVORABLE weather big factor in light fall fire season. W. Va. Conserv. 6(12): 11, 18-19, tables. Mar. 1943. 279.8 W524



- Only 227 fires occurred in forests of West Virginia from October 15 to December 15, 1942, of which 106 are attributed to smokers. FOREST fires cost state \$356,000 last year; protection is increased. Tenn. Conserv. 7(3): 5. Mar. 1943. 410 M252
- FOREST protection and rehabilitation. Canada Lumberman 63(6): 19-20. Mar. 15, 1943. 99.81 C16
- Concrete plan of forest fire protection in a Canadian region using men discharged from branches of military service.
- KAUFFMAN, ERLE. You can't win with fire. Amer. Forests 49(3): 106-108, 128, 140-141, illus. Mar. 1943. 99.8 F762
- Over-all picture of the forest fire scene including the damage brought about periodically by man-caused fires, and the organizations, manpower and equipment available for fighting them.
- MURPHY, TOM, and WELTNER, GEORGE. Man-to-man fire prevention; personal contacts. 16 pp., processed. [Atlanta, Ga.] U. S. Forest service, Southern region, Jan 9, 1943. 1.9621 R8M31
- Suggestions for improving the skill or understanding of Forest Service men in the making of personal contacts with forest residents.
- THE STORY of an actual forest fire in Ontario. Forest & Outdoors, Mar. 1943, pp. 71-72, illus. 99.8 C16
- Weather, fuel and agency were at their worst in May 1941 when a forest fire burned over 278,105 acres and lasted from May 18th to July 12th.
- VESSELS, JERRY. The north woods brigade. Conserv. Volunteer 5(30): 14-16. Mar. 1943. 279.8 C765
- Summarizes forest fire fighting rules.

#### FOREST MANAGEMENT

References on forest entomology are included in Section C, Entomology; references on forest botany in Section D, Plant Science.

- BROWN, NELSON C. The President practices forestry. Jour. Forestry 41(2): 92-93. Feb. 1943. 99.8 F768
- The President practices forestry in a realistic and practical manner on 800 acres of native growth and 250 acres of plantation near Hyde Park, New York.
- BUELL, JESSE H. Results of C.C.C. timber stand improvements on southern Appalachian national forests. Jour. Forestry 41(2): 105-112, illus. Feb. 1943. References. 99.8 F768
- A study of the success of the C.C.C. operations on the national forests from West Virginia to Georgia, made five years following treatment, with suggestions for improvements in technique where needed.
- COULTER, C. H. From pine mast to turpentine. AT-FA (Amer. Turpentine Farmers Assoc. Coop.) 5(5): 8-9, illus. Feb. 1943. 309.8 Am3
- From the planting and protection of pines to the yield of turpentine under the direction of the Florida Forest and Park Service.
- FOREST management of the "Coast islands working circle." Brit. Columbia Lumberman 27(2): 24-25, 63-64, diagr. Feb. 1943. 99.81 B77
- Concerns the management of a group of smaller provincial forests called the "Coast Islands Working Circle," instituted by the B. C. Forest Service as the first step in a more intensive forestry program for the coastal forests. Studies made in the present group

indicate that a 100 years' rotation will bring the greatest return in marketable products.

HICOCK, HENRY W. The Rainbow forest plantations; report of progress, 1942. Conn. Agr. Expt. Sta. Bul. 464, 702 pp., illus. New Haven, Sept. 1942. 100 C76St

Headings include: History and description of tract, destructive influences, description of plots, and notes on species.

INSTRUCTIONS for the use of chemical stimulants to increase gum naval stores production in 1943. Naval Stores Rev. 52(50): 8, 10, 12. Mar. 13, 1943. 99.81 N22

Prepared by the Southern Forest Experiment Station.

MEYER, H. ARTHUR. Management without rotation. Jour. Forestry 41(2): 126-132, illus. Feb. 1943. References. 99.8 F768

"Authorized for publication on October 15, 1942, as paper number 1136 in the Journal Series of the Pennsylvania Agricultural Experiment Station."

Headings include: Appraisal of normal growing stock, determination of yield for next period of management, and establishment of cutting plan.

PINE stumps salvaged. Sci. News Letter 43(11): 170. Mar. 13, 1943. 470 Sci24

Pine stumps are processed to extract turpentine, pine oil and rosin.

U. S. FOREST SERVICE. NORTH CENTRAL REGION. Results of forest cutting practices in various Lake states timber types. 55 pp., illus., processed. Milwaukee, Wis., June 1942. 1.9621 R9R31

Provides best information available in all types of cutting from clear cutting to intensive tree selection as observed from experiments made for more than 20 years in public and private forestry.

U. S. FOREST SERVICE. NORTH CENTRAL REGION. Suggested hardwood tree class standards for farm foresters. 33 pp., processed. Milwaukee, Wis., Jan. 1943. 1.9621 R9Su31

Illustrations and definitions designed to help in sizing up timber conditions, in marking for cutting purposes, or in appraising timber for sale or purchase on the stump. Ten tree classes are defined to allow the segregation of trees into well defined quality and vigor groupings.

WADSWORTH, FRANK H., and PEARSON, G. A. Growth and mortality in a virgin stand of ponderosa pine compared with a cut-over stand. U. S. Forest Serv. Southwest. Forest and Range Expt. Sta. Res. Rpt. 5, 16 pp., tables, processed. Tucson, Ariz., Jan. 1943. Bibliographical footnotes. 1.9622 S3R31

Concerns two sets of records begun in 1925, one for a 120-160 acre sample plot established 27 years ago, and the other for an adjoining newly logged area.

## REGENERATION

BRENER, W. H. Ten years of tree production and planting. Wis. Conserv. Bul. 7(2): 3-5. Feb. 1943. 279.8 W752

Shelterbelts in the sandy areas, expansion in the nurseries, research studies on soils, tree diseases, etc., and enlarged public, industrial and private plantings are results of the tree planting program begun in 1931 in Wisconsin.



BRINKMAN, K. A., and SWARTHOUT, P. A. Natural reproduction of pines in east-central Alabama. Ala. Agr. Expt. Sta. Cir. 86, 12 pp., illus. Auburn, Nov. 1942. 100 Allis

Work begun in 1940 by the Southern Forest Experiment Station in cooperation with the Alabama Agricultural Experiment Station to examine the different conditions under which pines either succeed or fail in restocking the land. A lack of satisfactory, young pine stock on 80 percent of the areas was attributed to an inadequate seed supply, fires, competition with other trees and shrubs, grazing, etc.

HAISCHER, CARL E. The use of deciduous trees and shrubs in reforestation; report of a Special committee of the New York section, Society of American foresters. Jour. Forestry 41(2): 94-99. Feb. 1943. 99.8 F768

Presented at the Jan. 1942 meeting of the New York Section, and published here in condensed form.

Other members of the Committee include: Irving S. Bowlby, Leroy A. Holmberg, Stuart S. Hunt, James M. Kennedy, Ellis F. Wallihan [and] D. F. Welch.

Comments and recommendations on the most important and most used of the 89 species on which reports were returned from the Committee and from foresters and biologists in New York and neighboring states.

MARRIOTT, CLIVE. Regeneration of woods and felled areas. Quart. Jour. Forestry 37(1): 17-24. Jan. 1943. 99.8 Q2

Natural reproduction fails to occur or changes its nature because of many reasons among which cutting, fires, animal devastation, soil and climate play important parts. Points out four factors needed for regeneration under modern conditions.

MEJIA G., PEDRO NEL. Reforestación en Caldas. Rev. Agropecuaria [Colombia] 7(28): 39-44. Oct. 1942. 9.4 C714

An economic consideration of reforestation in Caldas, Colombia.

MÜLLER, E. Die beschaffung von forstlichem saatgut bekannter herkunft.

(The collecting of forestry seed of known origin.) Schweiz. Ztschr. f. Forstw. 93(10): 247-251. Oct. 1942. 99.8 Sch9

ZEHNGRAFF, PAUL J. Jack pine regeneration following clear cutting on Chippewa National forest. Jour. Forestry 41(2): 122-125. Feb. 1943. References. 99.8 F768

Clear cutting, ground scarification, and slash disposal have produced successful results in promoting jack pine reproduction during the past six years at the Chippewa National Forest.

#### FOREST MEASUREMENTS

CORRAL, JOSÉ I. Curso de ordenación y valoración de montes; lecciones dadas en la escuela forestal, "Pozos Dulces." 2v., illus. Habana, Molina y compañía (Pt. 1); Compañía tipografica (Pt. 2), 1935-1937. References in introduction. 99.4 C81

Lessons on forest mensuration given in the forestry school, "Pozos Dulces" in Cuba, in a course on the regulation and valuation of woodlands.

HERRICK, A. M. How to measure trees. Purdue Agr. Ext. Bul. 282, 7 pp., illus. Lafayette, Ind., Nov. 1942. 275.29 In2E

LODEWICK, J. ELTON. West coast log values. 2. Western hemlock from the Washington cascades. U. S. Forest Serv. Pacific Northwest Forest and Range Expt. Sta. Prod. Paper 4, 27 pp., tables, diagrs., processed. Portland, Oreg., Jan. 1, 1943. 1.9622 P2P942

Second in a series of mill production studies begun late in 1940, in which individual logs are followed from the pond through the mill to the green chain, or cars in order to place a direct valuation on the product.

U. S. FOREST SERVICE. LAKE STATES FOREST EXPERIMENT STATION. Taper table[s] I-V. U. S. Forest Serv. Lake States Forest Expt. Sta. Tech. Notes 198A-198E, 5 pp., processed. University farm, St. Paul, Minn., Feb. 1943. 1.9 F7625T

Tables for basswood, elm, red and white oak, sugar maple and yellow birch.

### FOREST RESOURCES

BALSA wood production in Costa Rica boosted. Sci. News Letter 43(11): 169. Mar. 13, 1943. 470 Sci24

Yield will be raised to around 3,000,000 board feet this year.

BENGTSON, NELS A., and VAN ROYEN, WILLEM. Fundamentals of economic geography. Rev. ed., 802 pp. New York, Prentice-Hall, inc., 1942. 278 B43

Forests and forest industries of the intermediate climates, pp. 651-662, illus., map. References

CANNON, CLARENCE. Virgin timber in Missouri. Mo. Farmer 35(5): 4. Mar. 1, 1943. 6 M696

Pure virgin timber woodlands in Missouri are non-existent, and most areas have suffered heavy cutting, grazing and burning. There are a few near virgin tracts left usually because of inaccessibility.

COWLIN, R. W., BRIEGLEB, P. A., and MCRAVETS, F. L. Forest resources of the ponderosa pine region of Washington and Oregon. U. S. Dept. Agr. Misc. Pub. 490, 99 pp., illus., maps. Washington, D. C., Oct. 1942. References. 1 Ag84M

On title page: Pacific Northwest Forest and Range Experiment Station, Forest Service.

Facts on location, area, condition, depletion, growth, ownership, etc., of the forests, and supply, production and consumption of forest products.

GRANGER, C. M. The national forests at war. Amer. Forests 49(3): 112-115, 138, illus. Mar. 1943. 99.8 F762

National forests are providing wood and wood derivatives, ranges for grazing of domestic livestock, sites for camps, artillery ranges, maneuver areas, etc., for armed forces, fuelwood, strategic metals, naval stores, and other needed supplies for the war effort. Opening of new roads, increased fire protection vigilance, and other measures are being taken to insure the greatest utilization of these forests.

LIEBER, RICHARD. America's natural wealth; a story of the use and abuse of our resources. 245 pp. New York, Harper & brothers publishers, 1942. 279.12 L62

Ch. 9, Forests and our future, pp. 91-100, map. Ch. 10, Taking stock, pp. 101-109. Ch. 11, Whither now? pp. 110-121, illus.



MAVINKURVE, G. R. The role of our forests in the industrialisation of India. Poona Agr. Col. Mag. 34(2): 73-82. Oct. 1942. 22 P79

Many forest industries such as those for the manufacture of paper, distillation of wood into charcoal, alcohol, etc., extraction of perfumes, hair oils and other essential oils, manufacture of rayon, dyes, tannin and many other products could be developed to utilize the rich and at present wasted forest resources of India.

MORRISON, KEN. A report on Nerstrand woods. Conserv. Volunteer 5(30): 29-31. Mar. 1943. 279.8 C765

The last sizable remnant of historic Big Woods with its virgin forest floor and scenic beauty is to become state property.

SABOUREAU. Étude générale sur les forêts cotières du nord de Tamatave. Madagascar Bul. Econ. Trimest. Nouvelle Ser., no. 8, pp. 386-397, map. 1936. 270 M26Bu

Treats of the important role which the forests north of Tamatave play in the economic life of Madagascar, their depleted state and need for protection and reforestation.

TEN MILLION cork oaks for California. Golden Garden 10(5): 71, 77. Feb. 1943. 80 G56

California expects to produce enough cork to fill the needs of the Pacific Coast States. The trees will begin producing commercially in 15 to 20 years, and will have steadily increasing yields every six or eight years thereafter.

### LUMBERING

ACTUAL logging manpower need revealed. West Coast Lumberman 70(2): 32d. Feb. 1943. 99.81 W52

Western logging camp operators indicate the increase in log output that could be expected if a definite number of additional loggers were available.

NESS, H. J. Falling and bucking problems. West Coast Lumberman 70(2): 54. Feb. 1943. 99.81 W52

Mentions personnel factors accounting for the shortage in fallers and buckers, and offers some suggestions for overcoming difficulties.

PERFECTS method for chain saws. Canada Lumberman 63(5): 17-18. Mar. 1, 1943. 99.81 C16

Describes a filing rack for chain saws which holds the saws in the same position for filing as they assume on the power saw frame when in operation.

SAW TREATMENT for frozen logs. West Coast Lumberman 70(2): 66. Feb. 1943. 99.81 W52

Use of winter tooth and slowing of speed are suggested for frozen-log sawing.

STENSTROM, D. G. Pulpwood operations in British Columbia. Pulp and Paper Mag. Canada 44(3): 270-273, illus. Feb. 1943. 302.8 P96

Prepared for the annual meeting of the Woodlands Section, Canadian Pulp and Paper Association, Jan. 27-29, 1943.

Description of a portable pulpwood mill plan for making use of logging waste.

WINKELMANN, H. G. Zur frage der sortierung des nadelrundholzes nach qualitätsmerkmalen. (On the question of sampling round, softwood logs for quality characteristics.) Schweiz. Ztschr. f. Forstw. 93(10): 241-247. Oct. 1942. 99.8 Sch9

PRODUCTS UTILIZATION

BETTS, H. S. American woods. 7 nos., processed. Washington, D. C., U. S. Forest service, 1942. References. 1.9 F76Am

Description, nomenclature, distribution and growth, supply, production, properties and principal uses.

## Contents:

Aspen, 9 pp., maps. Dec. 1942.

Baldcypress (Taxodium distichum), 9 pp., map, illus. Nov. 1942.

Balsa (Ochroma lagopus Sw.), 13 pp., map. Oct. 1942.

Balsam poplar (Populus balsamifera), 4 pp., map. Nov. 1942.

Basswood (Tilia glabra), 9 pp., map, illus. Dec. 1942.

Birch, 11 pp., maps, illus. Dec. 1942.

Cottonwood, 10 pp., maps. Nov. 1942.

BROWN, NELSON C. Wood - the most important raw material of the future. Mech. Engin. [New York] 65(3): 182, 196. Mar. 1943. 291.9 Am3J

Presented at the Fall Meeting of the American Society of Mechanical Engineers, Rochester, N. Y., Oct. 12-14, 1942.

The field of application for wood has been so widened by war needs that more education is needed in its efficient utilization in order that it may assume a new and important place in the post-war world.

GODWIN, GORDON. Application of producer gas to Canadian automotive transport. Pulp and Paper Mag. Canada 44(3): 273-278, 282, illus. Feb. 1943. References. 302.8 P96

Prepared for the Annual Meeting of the Woodlands Section, Canadian Pulp and Paper Association, Jan. 27-29, 1943.

HOLLAND, W. W. The substitution of birch for spruce-balsam ground in the newsprint furnish. Pulp and Paper Mag. Canada 44(2, Wartime Serv. Issue): 148-151, diagr. 1943. 302.8 P96

Considers tests carried out by the Ontario Paper Company mill at Thorold to determine what percentage of birch pulp could be included in the newsprint furnish without impairing the quality of the regular newspaper.

KAHN, HENRY S. Laminated arches; an article discussing some innovations in the construction of the "Gothic" roof for farm buildings. Wood 8(2): 30-32, illus. Feb. 1943. 99.82 W855

LAWRENCE, M. C. Naval stores report on production, distribution, consumption and stocks of turpentine and rosin of the United States by crop years covering quarter, October 1-December 31, 1942. U. S. Bur. Agr. Chem. and Engin. ACE-196, 9 pp., tables, processed. [Washington, D. C.] Feb. 22, 1943. 1.932 A2Ag8

LUMBER requirements for 1943. South. Lumber Jour. 47(3): 37. Mar. 10, 1943. 99.81 So8

Minimum lumber requirements for 1943 of the Army, Navy, civilian construction industry, etc., are estimated at 31,132 million board feet.

MULLER, JOSEPH L. Forests are helping America fight. U. S. Dept. Com. Dom. Com. 31(11): 8-10. Mar. 18, 1943. 157.54 D713

Has a list giving important military uses for wood.

NEWSPRINT pinch. Business Week, no. 704, pp. 30, 32. Feb. 27, 1943. 280.8 Sy8

Argentina's sources of newsprint for 1943 seem largely to be cut off unless minimum supplies are made available from the United States and Canada.



OVERSTROM, E. Groundwood stock blending. Pulp and Paper Mag. Canada 44(2, Wartime Serv. Issue): 88-90, illus. 1943. 302.8 P96

"Paper presented at the Annual Meeting of the Technical Section, C. P. P. A., Montreal, Jan 27-29, 1943."

Different grades of pulp can be produced at the same time with satisfactory results and less total cost through blending operations. REYNOLDS, R. V., and PIERSON, ALBERT H. Domestic lumber distribution and consumption, 1941; all lumber, softwood lumber, hardwood lumber. 18 pp., processed. Washington, D. C., U. S. Forest service, Division of forest economics, July 1942. 1.962 F4L971

In cooperation with U. S. Bureau of the Census.

Preliminary statistics subject to correction.

RIOUX, L. J., and BARSALOU, MARCEL. Some observations on pulwood types and their preparation in relation to pulp cleanliness. Pulp and Paper Mag. Canada 44(2, Wartime Serv. Issue): 120-122. 1943. 302.8 P96

"Paper presented at the Annual Meeting of the Technical Section, C. P. P. A., Montreal, Jan. 27-29, 1943."

SCHRADER, O. H. The softening effect of saturated steam under pressure and steaming time on western hemlock and sitka spruce. Pacific Pulp & Paper Indus. 17(2): 16-20, illus. Feb. 1943. 302.8 P11

"The softening of Western hemlock and Sitka spruce by steaming the wood of these species at pressures of 25 to 100 pounds is roughly proportional to the steam pressure after 10 minutes exposure... Steaming times in excess of 15 to 40 minutes are not economically desirable as shown by the flattening of the curves beyond this point."

SOUTH CAROLINA, STATE PLANNING BOARD. Plastics from the farms and forests of South Carolina. S. C. State Planning Bd. Bul. 9, 48 pp. Columbia, Apr. 1942. References. 280.7 So829SB

An illustrated bulletin depicting the many products which can be made from plastics, the cellulose resources of South Carolina suitable for making plastics such as cotton and cotton linters, wood, wood pulp and wood waste, and bagasse, straw stalks and other agricultural residue, and shows the desirability of establishing plastics manufactures in South Carolina.

TIMBER and war needs. Quart. Jour. Forestry 37(1): 3-8. Jan. 1943. 99.8 Q2

Contributed by the Home Timber Production Department of Great Britain.

Lists uses of some species of wood, and points out reasons why it is difficult to distribute cutting evenly over all estates.

TURPENTINE and rosin. Chem. & Metall. Engin. 50(2): 121-123, diagr. Feb. 1943. 381 E12

Output of gum rosin and turpentine has been curtailed to comply with government conservation program, but supplies of wood rosin and turpentine have increased for the same period.

#### ADHESIVES AND FABRICATION

BRAUDE, FELIX. Adhesives. 154 pp. Brooklyn, Chemical publishing co., 1943. References. 309 B733

Practical study of all types of adhesives with some specific attention to plywood and wood adhesives.

EICKNER, H. W. Rate of setting of cold-setting, urea-resin glue joints. U. S. Forest Serv. Forest Prod. Lab. R1422, 8 pp., tables, diagrs., processed. Madison, Wis., Nov. 1942. 1.9 F761R

Shows the variation of time necessary for glue joints to reach maximum strength using different types of glue, and determines the strength of joints made with three urea-resin glues on yellow birch plywood, and Sitka spruce and sugar maple blocks.

FROM the glue craftsman's notebook. Amer. Lumberman, Feb. 20, 1943, p. 25, illus. 99.81 Am3

Some of the problems and tasks confronted in a wood-beam glue shop such as the selection of stock, moisture content of the wood, humidity of the air, spread of glue, etc.

HANSEN, HOWARD J. Some fundamentals of timber design. Tex. Engin. Expt. Sta. Bul. 66. 76 pp., illus. College Station, 1942. 290.9 T31

The first of a series of bulletins on wood and plywood presents the procedures and factors governing the use of the fundamental formulas in designing timber structures.

LUCAS, MIRIAM. Plywood goes to war. U. S. Dept. Com. Dom. Com. 31(11): 17-19. Mar. 18, 1943. 157.54 D713

Lists some of the numerous war uses of plywood emphasizing its use for airplanes, lifeboats, and in prefabricated and demountable construction. Eight basic steps of manufacture from the peeler log to the finished plywood are given.

MacDERMOT, J. G. The use of wood in aircraft. Brit. Columbia Lumberman 27(2): 53. Feb. 1943. 99.81 E77

Strength, rigidity and other properties make wood useful for aircraft construction. Wooden airplanes have the special advantages of being free from air drag because of being welded rather than riveted together, easy to repair by use of glue on damaged parts, and splintered rather than torn by bullets.

NEBESAR, ROBERT J. Molded plastic-bonded veneers and wood in aircraft construction. Mech. Engin. [New York] 65(3): 197-201, illus. Mar. 1943. References. 291.9 Am3J

Presented at the Annual Meeting of the American Society of Mechanical Engineers, New York, N. Y., Nov. 30-Dec. 4, 1942.

Description of the basic types of synthetic-resin glues which have helped overcome the more serious objections to the use of wood in aircraft construction with detailed steps of the molding process.

A NEW wood material: hydulignum. Brit. Plastics and Moulded Prod. Trader 14(163): 381-384, illus. Dec. 1942. 309.8 B76

Birchwood veneer, treated with a special resin called "Formvar" and compressed, is being used in the construction of blades for aircraft propellers.

PERRY, H. W. War demands boost plywood molding. Veneers and Plywood 37(3): 6-8, illus. Mar. 1943. 99.82 V55

War demands for molded plywood for aircraft, boats, etc., have greatly advanced its development. Several methods of performing the molding processes have been devised. It is expected that peacetime demands for household articles, small aircraft, canoes, etc., will cause further developments in this field.

#### WOOD PRESERVATION

WAND, FRANCES. Man improves on nature by fireproofing. South. Lumber Jour. 47(3): 57-58. Mar. 10, 1943. 99.81 So8

Procedure for "fireproofing" at the Eppinger and Russell wood-preserving plant in East Jacksonville where 175 carloads of lumber have been treated for navy hangars.



WOOD TECHNOLOGY

CLARK, JAMES d'A. Some interrelationships of pulp properties. Pulp and Paper Mag. Canada 44(2, Wartime Serv. Issue): 91-102, illus. 1943. 302.8 P96

"Paper presented at the Annual Meeting of the Technical Section, C. P. P. A., Montreal, Jan. 27-29, 1943."

Measurements of pulp properties considering such points as: Specific external surface, weighted average fiber length, cohesiveness of the fiber surface, compactibility of the fibers, strength of the individual fibers, and effect of beating on these properties.

ELECTRICAL resistance of wood. Nature [London] 151(3820): 83.

Jan. 16, 1943. 472 N21

Increases very rapidly with decrease in moisture content.

HANSBROUGH, J. R., WATERMAN, A. M., and LUXFORD, R. F. The significance of the discolorations in aircraft veneers: yellow birch. U. S. Forest Serv. Forest Prod. Lab. Mimeo. 1377, 7 pp., illus., processed. Madison, Wis., Jan. 1943. 1.9 F761R

In cooperation with U. S. Bureau of Plant Industry, Division of Forest Pathology.

MARKWARDT, L. J. Aircraft woods: their properties, selection and characteristics. Wood Prod. 48(2): 14-16. Feb. 1943. 99.82 W856

A table presents strength data on various woods for aircraft design using values as shown by tests made at the Forest Products Laboratory.

A discussion of properties omitted from the table is given in the text.

TEESDALE, L. V. Seasoning wood for ship construction. U. S. Forest Serv. Forest Prod. Lab. R1423, 9 pp., illus., processed. Madison, Wis., Dec. 1942. 1.9 F761R

Reviews methods of hastening air drying of shipbuilding material with some information on modifications in kiln drying for ship lumber. Stock properly kiln-dried for ship construction would offer a quick solution, but existing kiln capacity may not be sufficient for the drying of the amount of lumber needed.

TEESDALE, L. V. Shrinkage of wood in ship construction. U. S. Forest Serv. Forest Prod. Lab. Mimeo. R1424, 6 pp., illus., processed. Madison, Wis., Dec. 1942. 1.9 F761R

Tables give shrinkage figures for commercially important woods grown in the United States, and for tropical woods.

WOOD-USING INDUSTRIES

AMERICAN PAPER AND PULP ASSOCIATION. A study of community dependency on the primary paper and pulp industry of the United States. 89 pp., tables, processed. New York, 1942. 302 Am32S

Sources of data are the Bureau of the Census, American Paper and Pulp Association, and Lockwood's 1942 Directory. The report indicates the relative dependency of the towns and cities having primary paper and pulp mills on the industry.

BOCK, ROLAND. L'association des marchands de bois en gros de la province de Québec. Forêt Québécoise 5(3): 120-123. Mar. 1943. 99.8 F79

Origin, objectives and activities of the Association of Wholesale Lumber Merchants of Quebec in 1942.

CONDITIONS in the Swedish paper market. Paper-Maker and Brit. Paper Trade Jour., v. 104, Ann. No., p. 16. 1943. 302.8 P1922

The Skagerrack blockade stopped much of the export trade for the Swedish paper industry in 1941, with the manufacturers of newsprint, sulphite wrappings, greasproof, and some fine papers being particularly hard hit.

DIXON, WILLARD J. Kraft paper production sets new record. Paper Trade Jour. 116(7): 98, 100. Feb. 18, 1943. 302.8 P196

The 1942 production shows a 3 percent increase over that for 1941. However, the forecast for 1943 is that demand will exceed production and shipment by at least 10 percent and perhaps 20 to 25 percent.

DOBROW, M. C. Paper output in 1942 is 16,522,000 tons. Paper Trade Jour. 116 (7): 35-38, illus. Feb. 18, 1943. 302.8 P196

Operations as a whole were 90 percent of capacity in 1942, showing a decline of 4 percent from the all-time record of 17,304,000 tons in 1941. Tonnage will be down in 1943, not because of less demand, but because of insufficiency of raw material and labor.

FAIR, A. E. H. Accidents - our greatest waste. Pulp and Paper Mag. Canada 44(2, Wartime Serv. Issue): 103-106. 1943. 302.8 P96

"Paper presented at the Annual Meeting of the Technical Section, C. P. P. A., Montreal, Jan. 27-29, 1943."

A plan of employee training to bring about safety consciousness and a knowledge of safety methods.

THE INDIAN paper market. Paper-Maker and Brit. Paper Trade Jour., v. 104, Ann. No., p. 58. 1942. 302.8 P1922

Shows the pressure under which the Indian paper industry has been operating, the attempts made to extend the use of indigenous materials, and the opportunities for export trade from Canada and other countries.

KELLOGG, ROYAL S. Newsprint production for 1942 declines below record of preceding year. Paper Trade Jour. 116(7): 42, 44, 46, diagr. Feb. 18, 1943. 302.8 P196

Newsprint production for North America was 4,407,000 tons, a decrease of 7.9 percent from the 1941 output. Circulation of newspapers showed a gain for 1942, but advertising was unstable in volume.

LAMM, LYNNE M. A summary of government orders affecting paper in the war effort. Paper Trade Jour. 116(7): 90, 92, 96. Feb. 18, 1943. 302.8 P196

Orders issued by WPB and OPA during 1942 affecting the pulp and paper industry.

NICHOLLS, R. V. V. Plastics and the paper industry. Pulp and Paper Mag. Canada 44(2, Wartime Serv. Issue): 143-146, 151. 1943. References. 302.8 P96

"Paper presented at the Annual Meeting of the Technical Section, C. P. P. A., Montreal, Jan. 27-29, 1943."

Discusses: Plastics derived from wood; Plastics applied to paper and paperboard; and Plastics for paper mills.

PORTER, O. M. Pulp allocations and 1943 wood prospects. Paper Mill News 66(8): 63-64, 66. Feb. 20, 1943. 302.8 P195

SIBLEY, C. L. Canada integrates its paper industry to meet the war emergency. Paper Trade Jour. 116(7): 72, 74, 76, 78, 80. Feb. 18, 1943. 302.8 P196



Canada's paper industry has been closely integrated as regards production, output ratings, etc., under a plan made to keep the industry solvent in spite of labor, material and other shortages.

SWANSON, O. F. Wood pulp experiences a year of demand under government control. Paper Trade Jour. 116(7): 58, 60, 62, 64, 66. Feb. 18, 1943. 302.8 P196

A chart shows production, consumption, and imports and exports of wood pulp, and production of paper in the United States.

WAGNER, J. B. The waste problem in the forest products industry. Barrel and Box and Packages 48(2): 8-9. Feb. 1943. 99.82 B27

Waste occurs in the manufacture of cooperage stock because of many reasons among which are the splitting rather than the sawing of bolts, faulty methods of manufacture, improper piling on the yard, and lack of utilization of left-over pieces.

WHITING, GRAFTON. Paper board output in 1942 declines 9 per cent below record year. Paper Trade Jour. 116(7): 48, 50, 52, 54, 56, illus., charts. Feb. 18, 1943. 302.8 P196

#### RANGE MANAGEMENT

ALLO, A. V. Pasture establishment in the western Bay of Plenty. New Zeal. Jour. Agr. 66(1): 31-33, illus. Jan 15, 1943. 23 N48J

Outlines basic principles for pasture establishment including preparation of seed bed, sowing of a suitable and adequate seed mixture, and provision of fertilizer.

BUTLER, DALE. Permanent pastures; when to sow, preparation, and care of irrigated land. Tex. Livestock Jour. 1(8): 9, 22. Aug. 1942. 49 T29

COSTELLO, DAVID F. Returning abandoned cultivated lands to grazing will save short-grass range. Colo. Agr. Expt. Sta. Colo. Farm Bul. 5(1): 15-17. Jan./Mar. 1943. 100 C71S

Several well-defined stages in plant development occurring in the process of conversion from weeds to grass on abandoned fields as annual weeds, perennial weeds, mixed grasses, red threeawn, and short grass are discussed, with recommendations to hasten range improvement and increase productivity.

CROFT, A. R., WOODWARD, LOWELL, and ANDERSON, DEAN A. Measurement of accelerated erosion on range-watershed land. Jour. Forestry 41(2): 112-116, illus. Feb. 1943. References. 99.8 F768

On questions concerning the inventorying of range-watershed land such as the accuracy of ocular classification of eroded sites into approximate degrees of deterioration, the significance of terms as "moderate" and "severe" in describing stages of erosion, and the relationship of intensity and duration of grazing to loss of soil and characteristics of that which is left.

ELLIS, R. WILLIAMS. Hill sheep farming service. Quart. Jour. Forestry 37(1): 26-28. Jan. 1943. 99.8 Q2

Notes on hill afforestation and protection with particular reference to their influence on the stocking problem.

FAVRE, C. E. Wartime problems of the range. Amer. Cattle Prod. 24(10): 7-8, illus. Mar. 1943. 49 P94

Range management as practiced by a rancher in southeastern Utah where both natural and artificial regeneration are used in combination with resting of overused units, and the complete utilization of outlying regions.

HOWE, C. B. Grazing capacity as determined by range survey. 41 pp., processed. Washington, D. C., U. S. Bureau of agricultural economics, Nov. 1942. References. 1.941 L3G79

The range survey is a mechanical system, consisting of an index, a ratio, and a forecast by analogy, applicable to all types of perennial vegetation, and particularly suited for operations over a wide area.

HURT, LEON C. Cattle production increased on Northern great plains under conservative stocking. U. S. Forest Serv. North. Rocky Mountain Forest and Range Expt. Sta. Res. Note 22, 7 pp., processed. Missoula, Mont., May 1942. 1.9622 N3R31

Range management data from experiments conducted at Miles City, Montana, on the relative merits of grazing herds of 20 young Hereford cows each on pastures having degrees of stocking, heavy, moderate, or light.

LANCASTER, ROBERT R. Deferred grazing. Tex. Livestock Jour. 1(8): 6 Aug. 1942. 49 T29

Benefits of deferred grazing in ranch management.

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TAYLOR, WALTER P., and BUECHNER, HELMUT K. Relationship of game and livestock to range vegetation in Kerr county, Texas. Cattleman 29(10): 81, 83-86. Mar. 1943. References. 49 C29

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Partial contents: The Jornada experimental range, by Fred. N. Ares, pp. 1-6; Economic forage utilization, by W. G. McGinnies, pp. 7-10; Grass, shrubs, and maintenance of grazing capacity, by Kenneth W. Parker, pp. 11-16; Some observations of the deterioration of the mesquite sandhills range type and of the factors responsible for the deterioration, by Kenneth A. Valentine, pp. 17-21; Rabbits and rodents in relation to grazing lands, by Albert H. Trowbridge, pp. 22-27; Results from five years of range experiments with yearling steers, by H. H. Knox and P. E. Neale, pp. 28-33; Methods of soil preparation of range land as a factor in the success of reseeding, by J. O. Bridges, pp. 34-37; Livestock production under national defense, by A. D. Brownfield, pp. 1-4 (at back).



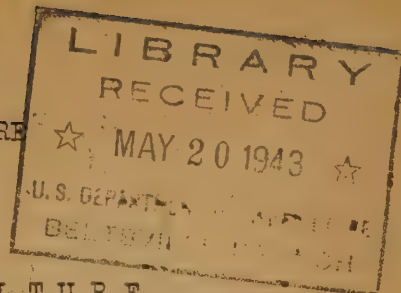
WEAVER, DEE L. Wildland grazing in northern Michigan. Mich. Agr. Expt. Sta. Quart. Bul. 25(2): 83-93, illus. Nov. 1942. 100 M58S

Based on information obtained in a two-year Bankhead-Jones Project study of wildland grazing operations in northern Michigan. The conclusions indicate that at least 80 percent of the wildland under public ownership in Michigan, varying from dense stands of second-growth forests to expanses of open land with few trees and shrubs, is not suited to grazing use.

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BIBLIOGRAPHY OF AGRICULTURE

SECTION E

FORESTRY

Vol. 2

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No. 4

GENERAL FORESTRY

BEDARD, AVILA. Post-war problems and possibilities. Forestry Chron. 19(1): 7-13. Mar. 1943. 99.8 F7623

Address delivered at Annual Banquet, Canadian Society of Forest Engineers, Jan. 25, 1943.

CANADIAN SOCIETY OF FOREST ENGINEERS. COMMITTEE ON POST-WAR REHABILITATION. Forestry in post-war rehabilitation. Forestry Chron.

19(1): 14-16. Mar. 1943. 99.8 F7623

"Report of the standing committee presented by the Chairman,

Mr. Ellwood Wilson, at the Thirty-fifth Annual Meeting, Canadian Society of Forest Engineers."

CORRAL, JOSÉ I. Perspectivas forestales. Rev. de Agr. [Cuba] 26(20): 100-106. July 1942/Jan. 1943. 8 Ag88Re

A consideration of the forest situation in Cuba: past misuse of forest riches; the interests of the owner, whether government or individual, and of dealers, manufacturers and consumers; the need for an inventory of forest resources, more knowledge of the properties of the woods and other forest products, and of means of managing forest resources. Quotes resolutions on forestry passed at the Second Inter-American Conference of Agriculture, Mexico City, July 1942.

COSENS, G. C. Forestry education in post-war rehabilitation. Forestry Chron. 19(1): 53-55. Mar. 1943. 99.8 F7623

Discussion, p. 55.

FOREST conditions as affected by the war. Amer. Forests 49(4): 151-152. Apr. 1943. 99.8 F762

The American Forestry Association announces the establishment of a three-year project for the appraisal of the forest situation in the United States, with particular reference to its changing status under war conditions.

GUENIER, PHILIBERT. El problema forestal. Guatemala Sec. de Agr. Rev. Agr. 20(1/2): 37-44. Feb. 14, 1943. 8 G934

An essay on the nature of forests and their relation to man.



HAGENSTEIN, W. D. The balance wheel of industrial forestry in the Douglas fir region. West Coast Lumberman 70(3): 35-36, 59. Mar. 1943. 99.81 W52

Paper presented at meeting of Canadian Society of Forest Engineers, Vancouver, B. C., Section.

"It has been held that industrial forestry may be considered as a balance wheel with each mutually dependent spoke of growing, protecting, harvesting, manufacturing, and marketing required to furnish its part of the drive necessary to overcome inertia."

HARRISON, J. D. B. The economics of forestry in rehabilitation. Forestry Chron. 19(1): 17-23. Mar. 1943. 99.8 F7623

Suggestions for post-war forest projects in Canada. Discussion, pp. 20-23.

KENNEDY, J. D. Nigerian forestry and the war effort. Empire Forestry Jour. 21(2): 131-133. 1942. 99.8 Em72

An informal report from the Conservator of Forests.

OLIPHANT, J. N. Some thoughts on forestry publicity. Empire Forestry Jour. 21(2): 106-109. 1942. 99.8 Em72

Considers the future of the Empire Forestry Association and its journal. In view of the limited value of forestry publicity and propaganda in professional journals, the author recommends that the Association be reconstituted as a strictly professional society of foresters, leaving propaganda and education to publications of other types.

S., J. H. Forestry and the countryside. Quart. Jour. Forestry 37(1): 35-38. Jan. 1943. 99.8 Q2

A consideration of certain prejudices on the part of the farmer and the city dweller against reforestation and "commercial forestry," and ways in which the forester may develop forest sense in the public through the "tactful" practice of good silviculture.

SOCIETY OF AMERICAN FORESTERS. COMMITTEE ON ACCREDITING SCHOOLS OF FORESTRY. Report. Jour. Forestry 41(3): 225-229, tables. Mar. 1943. 99.8 F768

H. H. Chapman, Chairman of Committee.

The complete report was not published, but copies have been sent to each school.

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Planting trees to replace those being used for war purposes is suggested as the keynote.

WAR STRIKES at Britain's woodlands. Forest & Outdoors, Apr. 1943, pp. 93-94. 99.8 C16

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Summary in Brit. Columbia Lumberman 27(3): 37-38, 43. Mar. 1943. 99.81 B77

NEW BRUNSWICK. DEPT. OF LANDS AND MINES. 106th Annual report...for the year ended 31st October 1942. 132 pp. Fredericton, N. B., 1943. 253.3 C88

Forest Service Report, 1942, pp. 80-105.

NYASALAND. FORESTRY DEPT. Annual report...for the year ended 31st December, 1941. 15 pp. Zomba, Nyasaland, 1942. 99.9 N982

[TENNESSEE. DEPT. OF CONSERVATION] Strides by Forestry division outlined in report. Tenn. Conserv. 7(4): 7-10. Apr. 1943. 410 T252

Taken from the Annual Report of the Department of Conservation.

TEXAS. FOREST SERVICE. Twenty-fourth and twenty-fifth annual reports, 1939-1940. Tex. Forest Serv. Bul. 30, 35 pp. College Station, Agricultural and mechanical college of Texas [1941?] 99.9 T31

### FOREST ADMINISTRATION AND POLICY

BRUNER, M. H. Recent developments in cooperative farm forestry between the Extension service and the S. C. State commission of forestry. Jour. Forestry 41(3): 186-189. Mar. 1943. 99.8 F768

Outlines cooperative farm forestry plan for South Carolina, and agreement by which State Commission of Forestry and Extension Service have unified administration to carry out the program.

CAMPAIGN launched to save giant redwoods; Native sons organization seeks acquisition by State of California of the last and largest remaining body of privately owned big trees, estimated to comprise nearly 5000 specimens of the giant redwood, Sequoia gigantea.

Timberman 44(5): 18-19, 32, illus. Mar. 1943. 99.81 T484

CANADIAN SOCIETY OF FOREST ENGINEERS. A statement of forest policy. Forestry Chron. 19(1): 56-63. Mar. 1943. 99.8 F7623

The general policy of the society is outlined under the following headings: Forest protection, forest administration, forest management, economics, forest research, and public relations and education.

Recommendations reprinted in Brit. Columbia Lumberman 27(4): 30-31, 44. Apr. 1943. 99.81 B77

COMMISSION set up to study deforestation and erosion in tropical countries under the auspices of the Royal African society; with comment by H. R. Blanford. Empire Forestry Jour. 21(2): 101-105. 1942. 99.8 Em72

Recommendations presented by the Commission consisting of representatives of the British, French, and Belgian colonies and the overseas territories of the Kingdom of the Netherlands.

FRITZ, EMANUEL. A proposed system of state forests for California to help solve cutover land and future unemployment problems. Jour. Forestry 41(3): 162-168. Mar. 1943. References. 99.8 F768

Discusses proposed program, now before California legislature, to create system of State forests by purchase of five million acres of cutover land.

FULL forest aid payments asked; amendments would end annual pro-rating of appropriations for local forestry efforts. Wis. Counties 5(9): 4, 20. Mar. 1943.

The Wisconsin County Boards Association urges increased financial



support of the State program for the promotion of local cooperative forests. A table shows acreage and 1942 payments to counties and towns, by county.

HEAD of WPB lumber branch outlines plan of cooperation with Forest service to further stimulate lumber output. Miss. Val. Lumberman 74(13): 7-8. Mar. 26, 1943. 99.81 M69

Preceded by a brief introduction, the letter of J. Philip Boyd to Lyle F. Watts, Chief of the U. S. Forest Service, is quoted in full.

MARSHALL, J. C. K. Detailed administration in the colonies.

Empire Forestry Jour. 21(2): 128-130. 1942. 99.8 Em72

Discussion of British Colonial Office policies in forest administration.

EL PROYECTO del P. E. sobre ley forestal; la A. rural lo impugna propiciando en cambio la sanción de la Comisión de F. del árbol. Asoc. Rural del Uruguay Rev. 69(12): 36-37. Dec. 1942. 9.9 As5

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RATHBUN, LAWRENCE W. Public policy and private forest management.

Forest Leaves 33(1): 3, 6-7. Jan./Feb. 1943. 99.8 F763

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A discussion of plans for post-war land utilization in Great Britain, calling attention to the insufficient consideration given to the importance and needs of forestry.

SOCIETY OF AMERICAN FORESTERS. COMMITTEE ON WAR MANPOWER. Manpower needs in forestry and associated fields; report. Jour. Forestry 41(3): 159-161. Mar. 1943. 99.8 F768

Lists essential war activities in forestry and associated fields in which the services of men with at least partial professional training are required and makes recommendations for providing the personnel necessary to handle these activities effectively.

SWABEY, C. The development of forest policy in Jamaica. Empire Forestry Jour. 21(2): 89-100. 1942. References. 99.8 Em72

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Discusses timber markets and their requirements, and methods of marketing. Compares stumpage prices with income derived from other methods of selling trees of various sizes and quality.

JOHNSON, ELMER H. Some economic aspects of our forest resources.

Tex. Business Rev. 17(2): 4-11. Mar. 1943. 280.8 T312

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SLIFKO, C. W. Commercial possibilities in Brazil's forest wealth.

U. S. Dept. Com. Foreign Com. Weekly 11(1): 10-11, 35, map.

Apr. 3, 1943. 157.54 F763

SWEDEN'S lowest; the wood export sales of 1942. Timber Trades Jour.

164(3470): 393. Feb. 27, 1943. 99.81 T48

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U. S. FOREST SERVICE. DIVISION OF STATE FORESTRY. Cooperative management and marketing for the woodland owner. U. S. Dept. Agr. Farmers' Bul. 1927, 16 pp., illus. [Washington, D. C., Feb. 1943] References. 1 Ag84F

Discusses fundamentals and possibilities of woodland owner's associations; describes activities of several representative associations.

U. S. NATIONAL RESOURCES PLANNING BOARD. Pacific northwest region industrial development. 39 pp., maps, diagrs. Washington, D. C.,

U. S. Govt. print. off., Dec. 1942. 173.2 N214Pac

The place of forests and forest products in the economy of the region is touched on in several of the chapters.

## PRICES

U. S. OFFICE OF PRICE ADMINISTRATION. Douglas fir plywood. Fed. Register 8(72): 4779-4781. Apr. 13, 1943. 169 F31

Revised Maximum Price Regulation 13, Amendment 13. Fixes maximum prices for moisture-resistant and exterior-type plywood.

U. S. OFFICE OF PRICE ADMINISTRATION. Northeastern hardwood lumber. Fed. Register 8(76): 4968-4976. Apr. 17, 1943. 169 F31

Maximum Price Regulation 368. Fixes maximum prices for standard and near-standard grades of domestic northeastern hardwood lumber and for "standard special" items; also allowable additions for kiln-drying, millworking, and anti-stain treatment. Fixes prices also for Canadian northeastern hardwood lumber delivered in the United States.

U. S. OFFICE OF PRICE ADMINISTRATION. Northeastern softwood lumber. Fed. Register 8(76): 4948-4966. Apr. 17, 1943. 169 F31

Maximum Price Regulation 219, revised. Provides "dollars-and-cents prices for all species of northeastern softwood lumber, whether domestic or imported, in both standard and special grades or items."

U. S. OFFICE OF PRICE ADMINISTRATION. Pulpwood produced in or sold into the States of Maine, Vermont, New Hampshire and New York. Fed. Register 8(69): 4511-4513. Apr. 8, 1943. 169 F31

Maximum Price Regulation 261.

UPS AND DOWNS in pine prices. Canada Lumberman 63(7): 16. Apr. 1, 1943. 99.81 C16

Chart showing fluctuations in white and Norway pine prices from 1900 to date.



TAXATION

- DEVRIES, WADE E., CRAIG, RONALD B., and HALL, R. CLIFFORD. Taxation of Florida forests in 1942. 26 pp., map, processed. Washington, D. C., U. S. Forest service, Mar. 1, 1943. 1.962 F4T19
- Assessment practices, rates, collection, and delinquency were studied, using representative counties in the northwest, northeast, and central sections of the State, and recommendations made.

FOREST FIRE PROTECTION

- FITZGERRELL, M. G. Forest fire fighting. Mo. Wildlife 5(2): 4, 11. Apr. 1943. 279.8 M692
- The place of the Conservation Federation of Missouri in fighting forest fires.
- GODWIN, DAVID P., and MACDONALD, ALAN. The new fire crusade. Amer. Forests 49(4): 180, 182. Apr. 1943. 99.8 F762
- The Forest Fire Fighters Service has been organized as an arm of the Office of Civilian Defense, as "an effort to mold into a nation-wide forest fire defense system all of the local cooperator groups scattered through the country, and to build them up into a national organization with high morale and trained effectiveness."
- McEWEN, P. Forest fire protection in post-war rehabilitation. Forestry Chron. 19(1): 24-38. Mar. 1943. 99.8 F7623
- Discussion, pp. 34-38.
- NEW JERSEY. DEPT. OF CONSERVATION AND DEVELOPMENT. Forest fuel types of New Jersey. [59] pp., illus., processed. [Trenton] Mar. 1942. 99.51 N462Fo
- Describes the typical forest fuel types of New Jersey, giving relative ratings for rate of spread of fires and for resistance to control for each type.
- WASHINGTON FOREST FIRE ASSOCIATION. Thirty-fifth annual report. 22 pp. [Seattle, 1943] 99.9 W273
- Includes tables showing origin and number of fires, burned areas and losses, by county, for 1942 season.
- WENDORF, L. W. Training forest fire fighters. Wis. Conserv. Bul. 8(3): 3. Mar. 1943. 279.8 W572
- Reports activity of volunteer auxiliary fire fighting force in Marathon County, outside the forest protection district.
- WINNER, LEWIS. The fire-fighting A M network... Uncle Sam takes no chances in having his forests destroyed by fire. Radio is protective medium. Radio News 29(4): 11-13, 59-62, illus. Apr. 1943. 335.8 R116
- Describes state-wide system of radio communication used by New Jersey fire wardens.
- WOODS, JOHN B., JR. Annual fire training program started; policy and procedure of [Oregon] State forestry department in instructing students on emergency fire control work outlined by forester. Forest Log 12(8): 3-4. Mar. 1943. 99.8 F7631

FOREST MANAGEMENT

References on forest entomology are included in Section C, Entomology; references on forest botany, ecology and soils in Section D, Plant Science.

BULL, HENRY. Pruning practices in open-grown longleaf pine in relation to growth. Jour. Forestry 41(3): 174-179. Mar. 1943. References. 99.8 F768

Presents results of experiments in southern Mississippi, including graphic chart showing total effects of different heights of pruning on d.b.h. and height growth for trees of different total heights.

COPE, J. A. Black locust for posts. N. Y. Agr. Col. (Cornell) Ext. Bul. 539, 23 pp., illus. Ithaca, Oct. 1942. References. 275.29 N48E

The black locust as a tree for the farm woodlot: characteristics and management.

HOPE, JOHN G. An investigation of the litter fauna of two types of pine forest. Wagner Free Inst. Sci. Phila. Bul. 18(1): 1-7. Feb. 1943. References. 500 P535B

A comparison, based on a limited number of samples, of the floor fauna of stands of pitch pine in the New Jersey Pine Barren region, with that of a stand of hemlock in Fairmount Park, Philadelphia. The structure, moisture and chemical composition of the litter are also considered.

JEMISON, GEORGE M. Effect of litter removal on diameter growth of shortleaf pine. Jour. Forestry 41(3): 213-214. Mar. 1943. 99.8 F768

Brief report of study made at Bent Creek Experimental Forest, near Asheville, N. C.

JENSEN, VICTOR S. Suggestions for the management of northern hardwood stands in the Northeast. Jour. Forestry 41(3): 180-185. Mar. 1943. 99.8 F768

Discusses: Reproduction and the development of a new stand following cutting; Management of old-growth stands; Cultural operations in young even-aged stands.

MARRIOTT, CLIVE. Further notes on the growth of Pinus insignis in West Cornwall. Quart. Jour. Forestry 37(1): 47-48. Jan. 1943. 99.8 Q2

Reports of growth of several planted stands; effect of different management practices and rate of growth on the timber; cultural requirements, and adaptability to unfavorable conditions.

PEARSE, A. S. Effects of burning-over and raking-off litter on certain soil animals in the Duke Forest. Amer. Midland Nat. 29(2): 406-424. Mar. 1943. References. 410 M58

The soil inhabitants of three sample plots were collected, classified and listed. Distribution was: from the plot left intact, 59%; from the burned-over plot, 22.5%; from the raked plot, 18.5%.



REYNOLDS, HARRIS A. Why better forest management. Forest Leaves 33(1): 1-2. Jan./Feb. 1943. 99.8 F763

Reprinted from Forest and Park News, Massachusetts Forest and Park Association.

ROSS, CHARLES R. Southern pine vs. northwest fir. Which region can grow wood most rapidly? Amer. Forests 49(4): 168-170, 178, 188-189. Apr. 1943. 99.8 F762

Comparison of estimates of average annual increment in the Douglas fir woods of the Pacific Northwest and the pine lands of the Southeast.

SAWMILLS buzz throughout State meeting present needs, but farmers cautioned against unwise sale of timber. Ind. Farmers' Guide 99(7): 15. Apr. 1, 1943. 6 In2

Advice on the management of farm woodlands.

U. S. SOIL CONSERVATION SERVICE. Highlights from the farm forestry projects, compiled from annual reports, fiscal year 1942, by Forestry division and Records and reports division... (prepared for use by Soil conservation service and official cooperators). Washington, D. C., U. S. Soil conservation service, Feb. 1943. 1.96 Op2H1

Examples illustrating the work of the farm forestry projects sponsored by the Soil Conservation Service in various sections of the country.

WELLWOOD, R. W. Trend towards normality of stocking for second-growth loblolly pine stands. Jour. Forestry 41(3): 202-209. Mar. 1943. References. 99.8 F768

Develops the theory that "second-growth stands of loblolly pine have a measurable trend towards normality of stocking, with increasing age."

WILSON, ELLWOOD. Forest management in post-war rehabilitation. Forestry Chron. 19(1): 51-52. Mar. 1943. 99.8 F7623

"A brief resumé of Mr. Wilson's remarks, made extemporaneously in introducing this topic for discussion at the Annual Meeting of the Canadian Society of Forest Engineers, drafted by himself." Discussion, pp. 51-52.

## HARVESTING

COPE, J. A. Ten years of farm forestry on a New York farm. Jour. Forestry 41(3): 169-173. Mar. 1943. 99.8 F768

"The success of the enterprise emphasizes the concept that farm forestry is likely to be profitable only when the raw product is harvested by the owner and when the woodlot is so managed as to give a return each year."

GRAEBER, R. W. Should get five harvests of pine. Prog. Farmer, Car.-Va. Ed. 58(1): 14. Jan. 1943. 6 P945

Outlines cutting plan for even-aged stands of pines.

TIMBER-R-R-R; farmers and townspeople can serve themselves and their country by harvesting war-needed timber. Oreg. Farmer 66(6): 3. Mar. 25, 1943. 6 Or32

Report of project carried out in Clackamas County, Oregon; stumpage for fire-wood was made available at low prices plus hauling charges, and cutting was done by the purchaser.

REGENERATION

GARDINER, ROLF. Replanting Cranborne chase. Quart. Jour.

Forestry 37(1): 28-35. Jan. 1943. 99.8 Q2

Account of the reforestation, begun in 1927, of an ancient forest area in southern England.

LIMING, FRANKLIN G., and SIZERT, B. F. Relative height growth of planted shortleaf pine and cut-back and uncut hardwood reproduction after release. Jour. Forestry 41(3): 214-216. Mar. 1943.

99.8 F768

Report of study made in 1940 in Clark National Forest, Missouri.

RAMELLA, RAUL. Preparación de almácigas para la plantación de árboles. Campo [Buenos Aires] 27(315): 17. Jan. 1943. 9 C15

Brief instructions for the preparation of tree nurseries.

SCHULTZ, ENRIQUE F. Una especie maderable de porvenir para Tucumán; el pino del Brasil o "pino misionero." Indus.

Azucarera 48(591): 38-41. Jan. 1943. 65.8 In22

The Brazilian or "misionero" pine [*Araucaria angustifolia*] has been introduced into the province of Tucumán, Argentine Republic, and is expected to be valuable in the reforestation of areas formerly cleared for cultivation. Instructions for its planting and cultivation are given. Because of its long tap-root, this species is very difficult to transplant, and plantings should be made with fresh seed, in the permanent location.

SILVA BARRIOS, FELIX A. Hay que plantar millones de árboles.

Campo [Buenos Aires] 27(315): 18. Jan. 1943. 9 C15

Advocates the planting of millions of trees in the province of Buenos Aires, for their effect on the climate and soil. Recommends suitable species, and gives directions for making forest nurseries.

ZACH, LAWRENCE W., BAUER, DON, and GOODYEAR, HAL. Practical application of plant hormones in forest-tree propagation. Jour.

Forestry 41(3): 214. Mar. 1943. 99.8 F768

Brief report of preliminary experiments conducted at Oregon State College. For the most part treatments were ineffective.

FOREST MEASUREMENTS

BRIEGLER, PHILIP A., and GIRARD, JAMES W. New methods and results of growth measurement in Douglas fir. Jour. Forestry 41(3):

196-201. Mar. 1943. References. 99.8 F768

Discusses new field technique of growth measurement on temporary plots, capable of yielding rapid but reliable results.

TREMBLAY, ATHLOD. Mesurage des bois empilés dont le volume est calculé en cordes ou en pieds cubes. Forêt Québécoise 5(4):

226-229. Apr. 1943. 99.8 F79

Mathematical bases for formulas for estimating the volume of stacked wood.



FOREST RESOURCES

- BETTS, H. R. American woods. 4 nos., processed. Washington, D. C., U. S. Forest service, 1942-43. References. 1.9 F76Am  
Description, nomenclature, distribution and growth, supply, production, properties and principal uses.  
Contents:  
Ash. 11 pp., maps, diagr. Feb. 1943.  
Black cherry (*Prunus serotina*). 7 pp., map, diagr. Feb. 1943.  
California incense cedar (*Libocedrus decurrens*). 3 pp., map. Aug. 1942.  
Western hemlock (*Tsuga heterophylla*). 10 pp., map, diagrs. Mar. 1943.
- BYRD, JESSE M. Forest resources of Butler county, Ohio. U. S. Work Proj. Admin. Ohio, Ohio Forest Rpt. 8, 49 pp., illus., maps, processed. Wooster, Apr. 1941. 99.9 Un32  
Survey made by Work Projects Administration personnel, in cooperation with Central States Forest Experiment Station and Ohio Agricultural Experiment Station.
- CRUIKSHANK, J. W. The forest situation in the coastal plain of Virginia... A Forest service progress report. U. S. Forest Serv. Appalachian Forest Expt. Sta. Forest Survey Release 12, [71] pp., maps, diagrs., processed. Asheville, N. C., Apr. 1, 1943. 1.9622 ASF76  
Preliminary report on inventory, growth, drain, requirements, policies, and plans.
- DEMON, E. L. East Texas forests and the future. U. S. Forest Serv. South. Forest Expt. Sta. Occas. Paper 103, 10 pp., processed. New Orleans, Jan. 16, 1943. 1.9 F76240  
Address before Texas Academy of Science, Nov. 14, 1942. Deals with forest resources of the region, uses of products and byproducts, and possibilities for the future.
- DEMON, E. L. Louisiana's forests and the future. U. S. Forest Serv. South. Forest Expt. Sta. Occas. Paper 104, 12 pp., processed. New Orleans, Feb. 1, 1943. 1.9 F76240  
Address before Louisiana Section, American Society of Civil Engineers, Oct. 5, 1942. Considers forest resources of the State, ownership, value and uses of products and byproducts, and future possibilities.
- GOSSELIN, CHARLES. La situation forestière dans le Lac Saint-Jean-Saguenay. Forêt Québécoise 5(4): 219-225. Apr. 1943. 99.8 F79  
Address before Association Forestière Québécoise, Oct. 1942.  
The forest situation in the Lake St. John-Saguenay basin, Quebec.
- GUNTHER, A. E. The distribution and status of mora forest (*Mora excelsa*) in the Ortoire basin, Trinidad, B. W. I. Empire Forestry Jour. 21(2): 123-127, map. 1942. 99.8 Em72

LAWSON, E. L. Pine Island state forest, an important timber producer. Conserv. Volunteer 5(25): 49-51. Oct. 1942.  
279.8 C765

This Minnesota State forest produces timber and serves as a water reservoir and wildlife refuge.

[MORAVETS, F. L.] Forest statistics for Skagit county, Washington, from the Forest survey inventory revised in 1941. U. S. Forest Serv. Pacific Northwest Forest Expt. Sta. Forest Survey Rpt. 88, 18 pp., illus., map, processed. Portland, Oreg., Aug. 1942.  
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[MORAVETS, F. L.] Forest statistics for Whatcom county, Washington, from the Forest survey inventory revised in 1941. U. S. Forest Serv. Pacific Northwest Forest Expt. Sta. Forest Survey Rpt. 89, 20 pp., maps, diagrs., processed. Portland, Oreg., Sept. 1942.  
1.9622 P2F76

RECORD, SAMUEL J., and HESS, ROBERT W. Timbers of the New World. 640 pp., plates, maps. New Haven, Yale university press, 1943.  
99.79 R24Th

Describes the trees of the Americas and their woods, giving geographical distribution, trade and vernacular names, uses, and special properties. Histological descriptions of many of the woods, and photomicrographs of cross sections of seventy species are included. The extensive bibliography, pp. 573-584, is arranged by country.

U. S. FOREST SERVICE. INTERMOUNTAIN REGION. Cache national forest, Utah-Idaho. 20 pp., illus., maps. Washington, D. C., U. S. Govt. print. off., 1943. 1 F769Cac

Description of the park, features of interest, recreational facilities, and suggestions for visitors.

YARHAM, E. R. India - a bastion of war power. The Middle East armies take a million tons of timber from India's forests annually - how British foresters brought a new deal to a ravaged and suffering land. Forest & Outdoors, Apr. 1943, pp. 85-86, 99. 99.8 C16

### LUMBERING

"CENTRE." Badly cutting bandsaws. Timber Trades Jour. 164(3467): 258. Feb. 6, 1943. 99.81 T48

EMERGENCY spurs development of new equipment. West Coast Lumberman 70(3): 27-28, 71. Mar. 1943. 99.81 W52

Describes new equipment developed by Forest Service engineers for army use.

HILTON, C. MAX. Rough pulpwood operating in northeastern Maine, 1935-1940. Maine Univ. Studies (ser. 2) 57, 197 pp., illus., maps, tables. Orono, Aug. 1942. 500 M28

Discusses all phases of logging pulpwood, from location and construction of camps and roads to delivery of wood at the mill. Special attention is given to costs. Lists of supplies and measured drawings of many items of equipment are included.



- HURLEY, P. J., and STEVENS, D. R. The role of a safety committee in reducing woods accidents. Pulp and Paper Mag. Canada 44(4): 322-324, 334. Mar. 1943. 302.8 P96
- Information from the 1941-42 report of the Safety Committee of the Montmorency Division of the Anglo-Canadian Pulp and Paper Mills, Limited.
- [HURT, BERT] Sawmill history of the Sierra national forest, California. Timberman 44(5): 10-13, 30, 32, illus. Mar. 1943. 99.81 T484
- Abridgment of unpublished material in files of Sierra National Forest of California.
- KOROLEFF, A. Skidding teamster's handbook... Efficiency in skidding of wood and handling of horses. 26 pp., illus. Montreal, Canadian pulp and paper association, 1942. 99.76 K84S
- "Prepared for and published by the Woodlands Section, Canadian Pulp and Paper Association."
- LEAVITT, HENRY. Care of power chain saws. West Coast Lumberman 70(3): 72-73. Mar. 1943. 99.81 W52
- MARN, L. MATTSSON. Några synpunkter på rationaliseringen av det manuella skogsarbetet. K. Landtbr. Akad. Tidskr. 81(1): 75-87. 1942. 104 Sw3
- Suggestions for the application of principles of scientific management to manual labor in forest management, with special reference to wood-cutting. German summary, p. 87.
- MANPOWER needs of western lumber industry vividly portrayed; grass roots survey brings out the real facts regarding the present need for more men in logging. West Coast Lumberman 70(3): 10-11. Mar. 1943. 99.81 W52
- TECHNIQUE of aircraft lumber production; Oregon firm develops a system of cutting and handling which results in an unusually high percentage of recovery. West Coast Lumberman 70(3): 12-14. Mar. 1943. 99.81 W52
- U. S. WAR PRODUCTION BOARD. DIVISION OF INFORMATION. Tire and truck conservation in forest industries. 14 pp., illus., table, diagr. [Washington, D. C., U. S. Govt. print. off., 1943] 173.409 T51
- Suggestions for making trucks and tires last longer in forest industries. Includes table showing load-carrying ability of tires.
- WOODS labour training. Pulp and Paper Mag. Canada 44(4): 325-331. Mar. 1943. 302.8 P96
- Six short papers prepared by divisional woods managers of the Canadian International Paper Company. The authors are: M. G. Linekin, T. F. Whalen, J. W. Sutherland, F. J. Farrell, B. H. Fearon, and J. H. Simpson.

## LUMBER INDUSTRY

### BRITISH COLUMBIA LUMBER AND SHINGLE MANUFACTURERS' ASSOCIATION.

Report of the president...for the year 1942. Brit. Columbia Lumberman 27(3): 24-26, 30. Mar. 1943. 99.81 B77

A survey of the activities of the lumber industry of British Columbia in 1942.

GREELLEY, W. B. The west coast lumber industry at war. Brit. Columbia Lumberman 27(3): 27-28. Mar. 1943. 99.81 B77

Address delivered before British Columbia Lumber and Shingle Manufacturers' Association, Mar. 2, 1943. Report of current conditions and future prospects of the Oregon and Washington lumber industry.

HUNDRED western mills which cut most lumber in 1942. West Coast Lumberman 70(3): 22. Mar. 1943. 99.81 W52

Tabulation of firms, giving location and number of board feet produced.

LUMBER - a farm essential. Dakota Farmer 63(6): 125. Mar. 20, 1943. 6 D14

On the scarcity of lumber in the Dakotas, particularly for farm repair needs.

OUTPUT of mills in Lake States area continues to lag because of manpower, material shortages; small operators squeezed between rising costs of production and ceiling prices; food rationing causes difficulties in logging camps; mills also urged to improve quality of sawing. Miss. Val. Lumberman 74(15): 11, 18-19. Apr. 9, 1943. 99.81 M69

SOUTHERN pine producers hold meetings to discuss manpower, food shortages; production of both softwoods and hardwoods seriously hampered by shift of help to other industries and to armed forces. Miss. Val. Lumberman 74(15): 29-30. Apr. 9, 1943. 99.81 M69

[U. S. BUREAU OF FOREIGN AND DOMESTIC COMMERCE] Lumber statistics. U. S. Bur. Foreign and Dom. Com. Survey Current Business 23(3): 27-28. Mar. 1943. 157.7 C76Ds

Tables showing production, shipments and stocks of hardwoods and softwoods (all types) for 1937-1941, and new orders, production and shipments of southern pine, western pine for 1941, and west coast woods, 1938-1941.

U. S. CONGRESS. SENATE. SPECIAL COMMITTEE INVESTIGATING THE NATIONAL DEFENSE PROGRAM. Investigation of the national defense program. Additional report...pursuant to S. Res. 71...Interim report on lumber and forest products. 77th Cong., 2d Sess. Senate Rpt. 480, pt. 14, 12 pp. Washington, D. C., Dec. 1942. 148.7 D77A

Issued also as App. 9 of the Second Annual Report of the Special Committee Investigating the National Defense Program (S. Rpt. 10, pt. 4, 78th Cong., 1st sess.).

Harry S. Truman, Missouri, Chairman of Committee.

The three major phases of the lumber and lumber products situation are: requirements for military and essential civilian use, current and future production and factors affecting such production, and steps taken to insure an adequate supply of lumber and lumber products to meet essential military and civilian needs.

U. S. WAR PRODUCTION BOARD. Dogwood. Fed. Register 8(73): 4839. Apr. 14, 1943. 169 F31

Limitation Order L-285. Limits sale of dogwood to manufacturers of shuttles and shuttle blocks.

U. S. WAR PRODUCTION BOARD. Yellow poplar. Fed. Register 8(77): 5157-5158. Apr. 20, 1943. 169 F31

General Conservation Order M-279, as amended April 19, 1943. Limits processing of logs of Liriodendron tulipifera to production of aircraft veneer or lumber, except as provided.



PRODUCTS UTILIZATION

References on the use of wood and wood products for packaging and crating food products are included in Section F.

- CRATING airplanes. Mod. Packaging 16(8): 166, 210, illus. Apr. 1943. 309.8 M72  
Describes special cases used by Fairchild Engine and Airplane Company for packing all parts of an airplane, including wings, in one unit.
- DAVIS, ELRICK B. Wood and machines. Amer. Forests 49(4): 153-155, 186, 188, illus. Apr. 1943. 99.8 F762  
Historical and modern examples of uses of wood, especially by machine tooling and mass production methods.
- DEAN, W. E. Timber-concrete bridge decks used in Florida; continuous spans are featured in procedure which is economical of steel. Civ. Engin. 13(4): 175-177, illus. Apr. 1943. 290.8 C49  
Describes construction methods, modified to conserve critical materials.
- GEESAMAN, D. W., and NORRIS, T. G. Dairy farming with sawdust. Amer. Forests 49(4): 164-165. Apr. 1943. 99.8 F762  
Use of sawdust and shavings as bedding in dairy barns.
- GREAT BRITAIN. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. Economy of timber in building. Gt. Brit. Dept. Sci. and Indus. Res., Bldg. Res. Wartime Bldg. Bul. 19, 16 pp., illus. London, H. M. stationery off., 1942. 296.9 G792W  
Discusses the chief uses of wood in building, and ways in which economies may be effected.
- HISTORIA y fabricación de la pipa de madera. Chacra 13(148): 72-73, 76. Feb. 1943. 9 C43  
History and manufacture of wooden smoking pipes.
- MOVING timbers in a fabricating yard. Engin. News-Rec. 130(12): 73-75. Mar. 25, 1943. 290.8 En34  
"Timber truss frames weighing 14 tons each, which had to be fabricated for a special naval purpose, required unusually large and heavy timber members. To move these timbers to the saws, to the framing platforms and to the assembly areas, a combination of truck cranes, roller conveyors, skids and guy derricks was successfully used."
- REYNOLDS, P. JOYCE. Shoes...walking on wood. Country Life [London] 93(2404): 324, 326, illus. Feb. 12, 1943. 80 C83  
Because of the shortage of sole-leather in England, various types of wood soles are being introduced. Alder is the wood preferred, the limited supply being reserved for industrial clogs. Well-seasoned beech will be used for soles for ordinary purposes.
- SCHMIDT, W. C. Some features of wood H-frame design for high-voltage line structures. Edison Elect. Inst. Bul. 11(4): 113-118, 124, illus., diagrs. Apr. 1943. 335.8 Ed4  
Describes various types of structures, discussing engineering principles involved.

U. S. FOREST SERVICE. FOREST PRODUCTS LABORATORY. List of publications on box and crate construction and packaging data. U. S. Forest Serv. Forest Prod. Lab. R 791, 15 pp., processed. Madison, Wis., Dec. 1942. 1.9 F761Lb

WHITE pine performs many war services; along with all other woods it has been drafted for essential war production - sought by United States. Canada Lumberman 63(7): 17-18. Apr. 1, 1943. 99.81 C16

Canadian operators report that white pine is being used almost entirely for war purposes.

WINEGAR, B. M. Developments in the use of timber for bridges and culverts. Roads and Bridges 81(3): 41-96, illus. Mar. 1943. 290.8 C16A

"Abstract of a paper read before the Association of Ontario Land Surveyors."

The cost and maintenance of timber-treated bridges are usually lower than for other types. Timber construction is steadily being brought into greater prominence by the use of timber culverts, timber-concrete composite decks, laminated construction and ring connectors.

WOOD IMHOFF tanks serve an army camp. Engin. News-Rec. 130(4): 96-98, illus. Apr. 8, 1943. 290.8 En34

"Constructed entirely of wood, a battery of nine Imhoff-type settling tanks with a capacity of 3.8 mdg. are in use at an army sewage disposal plant. The design permitted the elimination of critical materials and resulted in speedy construction."

#### ADHESIVES

HIGH frequency electrostatic heating for gluing and drying; interesting outline of its application to requirements of plywood and woodworking fields. Canada Lumberman 63(8): 12-14, illus. Apr. 15, 1943. 99.81 C16

LIGHTHALL, C. H. Glued laminated beams achieve strength with economy; laminating process makes lower grades of lumber usable in heavy construction. Brit. Columbia Lumberman 27(3): 51. Mar. 1943. 99.81 B77

WAR TIME gluing with casein and resin. Furniture Mfr. 58(3): 24-26, illus. Mar. 1943. 300.8 F982

Discusses casein, urea resin and phenol resin glues, directions for mixing and conditions affecting choice.

#### CHARCOAL

CARBÓN de leña; qualidades de este producto vegetal; obtención de carburantes. Chacra 13(148): 16-19. Feb. 1943. 9 C34

Qualities and manufacture of charcoal; types of ovens.

HARRIS, P. A charcoal kiln of brick construction. Empire Forestry Jour. 21(2): 110-115, pls. 1942. 99.8 En72

Describes construction and operation of kiln designed at Forest Products Research Laboratory. Working drawings are available.

THIS truck burns charcoal. This experience of a large fleet owner in the South may contain some interesting food for thought. Fleet Owner 30(3): 66, 92, illus. Mar. 1943.

Heavy-duty trucks of the Champion Paper & Fibre Company of



Canton, N. C., are being driven by charcoal burners, and on home-made hardwood tires.

WOOD charcoal gas as a motor truck fuel. Timberman 44(5): 14-15, illus. Mar. 1943. 99.81 T484

Report of trials conducted by Forest Products Laboratory.

### NAVAL STORES

BERLINER, J. J., and staff. A Berliner research survey on latest developments in turpentine & substitutes. 45 pp., processed. New York [1942?]. References. 99.77 B45

LAWRENCE, M. C. Naval stores report on production, distribution, consumption and stocks of turpentine and rosin of the United States by crop years, covering quarter October 1-December 31, 1942. U. S. Bur. Agr. Chem. and Engin. ACE-196, 3 pp., processed. [Washington, D. C.] Feb. 22, 1943. 1.932 A2Ag8

### PLASTICS

GIBSON, A. J. Wood in the plastics industry. Empire Forestry Jour. 21(2): 116-119. 1942. References. 99.8 Em72

A review of the literature reporting recent developments.

KLINE, G. M. Advances in plastics during 1942. Mech. Engin. [New York] 65(4): 245-247, 260. Apr. 1943. 291.9 Am3d

A review of the literature of the year. Includes many references on the uses of wood in the plastics industry.

OBORG, T. P., SCHWARTZ, R. T., and SHINN, D. A. Mechanical properties of plastics at normal and subnormal temperatures. Mod. Plastics 20(8): 87-100, 122, 124, 126, 128, illus., diagrs. Apr. 1943. References. 309.8 P69

"The present investigation is concerned with the determination of the static tensile, compressive, stiffness and bending properties, and the fatigue characteristics of a number of thermoplastic and thermosetting plastic materials at temperatures of -38°, 0° and +78° F... Several types of thermoplastic and thermosetting plastic materials as well as plastic-bonded plywood and resin-impregnated, compressed laminated wood were tested."

### PULP AND PAPER

BAUM, ROBERT A. The effect of alum floc on pulp strength development. Pacific Pulp & Paper Indus. 17(3): 20-22. Mar. 1943. 302.8 P11

"A little investigated phase of the effect of alum floc is presented, in relation to the effect of precipitated water constituents upon the strength development of unbleached sulphite in the treating elements."

CODWISE, PHILIP W. The resistance of sized paper and paperboard to water at elevated temperatures. Paper Mill News 66(14): 14, 16-17. Apr. 3, 1943. References. 302.8 P195

"It is possible to test the internal sizing of paper and paperboard by flotation upon water at high temperatures up to the boiling point of 212° F. A rapid test for internal sizing has been presented based on flotation upon water at or close to its boiling point."

"Data and curves of a wide range of sized paper products have been given showing their behavior when floated upon water at temperatures from 72° F. up to 212° F." - Author's abstract.

- DAVIS, KENNETH R., and NEUBRECH, W. LeROY. The printing and publishing industry. U. S. Dept. Com. Dom. Com. 31(12): 17-19, processed. Mar. 25, 1943. 157.54 D713  
Discusses labor and material shortages facing the printing and publishing industry and the pulp and paper industry.
- FABRICATING plane parts from paper. Aviation 41(11): 138. Nov. 1942. (Madison Sub-Branch Libr.)
- GOETTSCH, WALTER J. Comments on weatherproof boxes. Fibre Containers 28(3): 10, 12, 14, 16. Mar. 1943. 286.8 F44  
Report of experiments made in search of a corrugated box that would retain its rigidity as well as strength after prolonged immersion in water. To date the most satisfactory adhesive has been asphalt.
- GRANT, RODERICK M. From confetti to battleships - paper runs the world. Pop. Mechanics Mag. 79(5): 18-25, 165, 167. May 1943. 291.8 P81  
Popular account of paper-making processes and uses of paper, emphasizing recent developments.
- HANKINS, E. R. Weatherproof containers for overseas shipment. Fibre Containers 28(3): 50-52. Mar. 1943. 286.8 F44  
Paper presented at 1943 annual meeting of Technical Association of the Pulp and Paper Industry.  
Discusses the problem, and progress achieved in meeting it; quotes tentative specifications of Office of the Quartermaster General.
- HILL, EDWARD H. The effects of various cooking conditions on the bleachability and strength characteristics of kraft pulp. Paper Trade Jour. 116(14): 32-34. Apr. 8, 1943. 302.8 P196  
Paper presented before Technical Association of the Pulp and Paper Industry, Feb. 1943.
- "HOW MUCH paper and board do we need?" WPB's Director of the Pulp & paper division attempts to clarify the question of necessary requirements. South. Pulp & Paper Jour. 5(10): 6-8. Mar. 1943. 302.8 So8
- MULTI-PURPOSED building material offered to lumber industry. Amer. Lumberman, no. 3253, pp.42, 68. Apr. 3, 1943. 99.81 Am3  
A fiber building material called "Fibercrete," made by a patented process, is 75 percent wood fiber and 25 percent Portland cement. Waste pieces of green wood, and species of trees not otherwise commercially useful may be utilized.
- NICHOLLS, R. V. V. Plastics and paper; production from wood - application in paper products and mills. Canad. Chem. and Process Indus. 27(3): 122-124. Mar. 1943. References. 381 C16  
Address before Technical Section, Canadian Pulp and Paper Association, Jan. 27, 1943.



PORTER, OLIVER M. Wood pulp allocation and 1943 wood and pulp prospects. Pacific Pulp & Paper Indus. 17(3): 12-15. Mar. 1943. 302.8 P11

Presented at annual meeting of Technical Association of the Pulp and Paper Industry, Feb. 18, 1943.

U. S. FOREST SERVICE. Pulpwood goes to war; more and more is needed from the farm woods. [4] pp., processed. Washington, D. C., [1943?] 1.962 A2P96

"Prepared by Forest Service and Extension Service cooperating."

WELLS, SIDNEY S., KAPLAN, ARTHUR B., and AYRES, LEWIS R. Tests on fiber containers; the Beach puncture tester. Paper Trade Jour. 116(13): 29-38, diags. Apr. 1, 1943. References. 302.8 P196

Paper presented before Technical Association of the Pulp and Paper Industry, Feb. 1943. Reports results of compression, impact, adhesion, and other special tests on corrugated fiber boxes.

#### TANNING MATERIALS AND DYEWOODS

RUSSELL, ALFRED, and others. Natural tanning materials of the southeastern United States. III. New tropical and subtropical sources. Amer. Leather Chem. Assoc. Jour. 38(4): 144-148. Apr. 1943. References. 303.9 Am32

V.E. Lucas, Edward A. Kaczka, W. G. Tebbins, and Sophia Cody, joint authors.

Qualitative and quantitative results of tests for tannin content of the wood or bark, or both, of twenty-six species of trees growing in the Southeastern States are given in tabular form. Qualitative reports only are given for nineteen other species.

SOUTH AFRICA. DIVISION OF FORESTRY. South African wattle bark and wattle extract with special reference to the American market. 18 pp. Cape Town, Cape Times limited, Apr. 1941. References. 99.75 So82

Discusses management practices, grading, qualities, South African exports of bark and extract, and consumption in the United States. Lists and compares competitive tanning materials.

#### veneers and plywood

GLIDERS from the Wolverine State; special talents of the plastics, automotive and furniture industries find common ground in midwest production of plastic-bonded plywood gliders. Mod. Plastics 20(8): 62-66, 128, illus. Apr. 1943. References. 309.8 P69

Methods of laminating and molding plywood in use in automobile and furniture factories now making glider parts.

HESS, R. W. How plywood mfgs. can help aircraft industry. Wood Prod. 48(2): 32, 34, 38; (3): 32, 34, 36. Feb., Mar. 1943. 99.82 W856

Address delivered before Hardwood Plywood Production Conference and sponsored by The Hardwood Plywood Institute, Chicago, Dec. 15, 1942. Urges production of plywoods to meet specifications for definite needs.

- HYLER, J. E. Molding plywood to form; when the war is over, the great facilities which have been developed for this type of work will doubtless be turned over to the making of many plywood molded items which are at present but vague dreams in the minds of production designers. Veneers and Plywood 37(4): 8-9. Apr. 1943. 99.82 V55
- JOHNSON, A. L. Producing high-grade veneer and plywood. The manufacture of high-grade veneer and plywood calls for the use of considerable special equipment. This article deals with machines and methods used in a typical manufacturing plant. Veneers and Plywood 37(4): 12, 13-14. Apr. 1943. 99.82 V55
- MARHOEFER, L. J. Design considerations for plywood structures. Aviation 41(11): 114-117, 340; (12): 146-149, 314. Nov., Dec. 1942. (Madison Sub-Branch Libr.)
- PATENTED cooking for manufacturers, invention by Vidal research corporation. Furniture Mfr. 58(3): 8-10, 26, illus. Mar. 1943. 300.8 F982
- "This process is a single operation method of molding by means of heat and fluid pressure plastic-treated veneers which have been wrapped about a form into a completely shaped structure, reinforced or non-reinforced."
- PERKINS, N. S. Douglas fir plywood for aircraft. Aero Digest 42(3): 260, 384, 386. Mar. 1943. 333.8 Ae82
- Discusses special requirements.
- SMITH, W. T. Sealing and surfacing plywood aircraft. Wood Prod. 48(3): 14, 22. Mar. 1943. 99.82 W856
- Discusses principles and practices of finishing plywood airplane parts and the suitability of various types of sealing and surfacing materials.
- STEPHAN, JOHN. Bag moulding and the coated core technique. Wood Prod. 48(3): 14, 22. Mar. 1943. 99.82 W856
- Discusses methods of applying heat and pressure, assembly time, and choice of adhesives.
- U. S. NATIONAL BUREAU OF STANDARDS. Douglas fir plywood (fifth edition)... A recorded voluntary standard of the trade. U. S. Natl. Bur. Standards Com. Standard CS45-42, 25 pp. Washington, D.C., 1943. 157.88 C73 CS45
- USE OF plywood speeds war production, new processes used for air and sea craft. Furniture Mfr. 58(3): 20-22, 32, illus. Mar. 1943. 300.8 F982
- Topics discussed are: new resinous adhesives, new methods of heating, the necessity for precision control in aircraft plywood, uses for plywood in war production, and possible shift of plywood industry from east to west.

#### WOOD AS FUEL

- IF YOU want increased capacity and efficiency in wood-burning furnaces - look over these helpful ideas from G. L. Graiff's west coast plant, where tests on redwood hog fuel and grate designs pointed out ways to boost output to meet load demands. Power 87(4): 74-75, 140, 142, 144, illus. Apr. 1943. 290.8 P87
- Report of studies of methods of burning wood waste, especially as



affected by the proportions of the sawdust-hogwood mixture, the size and design of the grate, and the air supply.

ZANETTA, ALBERTO. Algunos aspectos de la industria de los combustibles en la República Argentina. Indus. y Quím. 4(6): 180-192, illus., maps. Dec. 1942. References. 385 In28

Some aspects of the fuel industry in the Argentine Republic. There is a section on firewood on page 183, and a map showing the distribution of forest fuels on page 185.

#### WOOD SEASONING AND PRESERVATION

HARTLEY, CARL, and MAY, CURTIS. Decay of wood in boats. 12 pp., processed. [Washington, D. C.] U. S. Bureau of plant industry, Division of forest pathology, Jan. 1943. References. 1.965 F3D35

Discusses the nature and cause of decay of wood in boats and methods of decreasing the hazard, as use of decay-resistant wood, use of seasoned wood, avoidance of sources of infection, keeping water out, improved ventilation, and the use of wood preservatives.

MORTAR-COATED piles resist hard treatment. Engin. News-Rec. 130(12): 73-75. Mar. 25, 1943. 290.8 En34

Untreated wood piles, coated with "shotcrete," have superior strength, rigidity, and resistance to rough handling. The method was developed by the U. S. Engineer Department.

PULLED piles reveal effectiveness of asphalt-treated wrapping. Engin. News-Rec. 130(4): 86-87, illus. Apr. 8, 1943. 290.9 En34

Douglas fir piles, protected by a coating of asphalt paint and roofing felt, sheathed with wood strips, were found to be in condition suitable for redriving when pulled in 1941, after four years of service in San Francisco Bay.

SHIPLEY, GRANT B. A review of the lumber, cross tie, and wood preserving industry in the United States, 51 year period (1890-1940). 31 pp., illus., diagrs. in. p., 1942. 300 Sh6

On cover: The wood preserving industry and the conservation of forests.

UNIQUE lumber seasoning method; research suggests possibilities in using solvents to extract moisture from green stock. Canada Lumberman 63(8): 23. Apr. 15, 1943. 99.81 C16

Reports new process for extracting moisture from wood by means of solvents. The process was developed in the Western Pine Laboratory and is being patented by the Western Pine Association.

WOOD sewer sound after carrying acids 17 years. Engin. News-Rec. 130(4): 101. Apr. 8, 1943. 290.8 An34

A box of creosoted wood used in the disposal of citrus fruit waste was in good condition when dug up in 1942.

#### WOOD TECHNOLOGY

BRITISH wood poles; tests on larch and scots pine. Elect. Rev. [London] 132(3408): 277-279, illus., diagr. Mar. 19, 1943. 335.8 E122

Results of tests made by the Yorkshire Electric Power Company are shown in diagram and table.

BROOKBANK, E. BRUCE, and others. New derivatives of lignin. Paper Trade Jour. 116(13): 27-28. Apr. 1, 1943. 302.8 P196

F. E. Brauns, H. F. Lewis, and M. A. Buchanan, joint authors. Paper presented before Technical Association of the Pulp and Paper Industry, Feb. 1943.

"Using the commercially available lignin, Meadol, as a raw material, the authors have prepared an extensive series of esters of mono- and dibasic aliphatic acids, as well as esters of several aromatic acids. Twenty-six compounds have been characterized." - Authors' abstract.

FINDLAY, W. P. K. Resistance to decay. Empire Forestry Jour. 21(2): 134. 1942. 99.8 Em72

Report of laboratory tests of effect of six fungi on akomu (Pycnanthus kombo) and peroba rosa (Aspidosperma polyneuron).

FINDLAY, W. P. K. Resistance to decay of Pinus strobus. Empire Forestry Jour. 21(2): 134. 1942. 99.8 Em72

Report of laboratory tests of effect of five fungi; the average loss in dry weight was 15.8 percent.

McCULLOUGH, CONDE B. Oregon tests on composite (timber-concrete) beams. Amer. Concrete Inst. Jour. 14(5): 429-440, illus., diags. Apr. 1943. 299.9 Am3J

Reports tests of timber-concrete beams developed by Oregon State Highway Department to meet need for short span highway bridge intermediate in cost between untreated timber trestle and reinforced concrete viaduct.

#### WOOD-USING INDUSTRIES

FEJÉR, GEORGE. A British plan for furniture. Mod. Plastics 20(8): 70-72, 158, 160, 162, 164, 166, 168. Apr. 1943. References. 309.8 P69

Recent developments in plywood, veneers and plastics are expected to be reflected in the design and manufacture of furniture after the war.

MEXICO'S lumber and furniture industries. Mex.-Amer. Rev. 11(4): 6-9, 28, 30. Apr. 1943. 287 M572

"Mexico's great wealth in timber - Factors which hold back the lumber industry - The infant plywood industry - This country's ultra-modern furniture - French styles make a comeback - Leading furniture manufacturers." - Subtitle.

#### RANGE MANAGEMENT

ARES, FRED N. Using salt to improve calf crop, ranges; practices of salting away from water holes has tendency to improve the ranges and does not cut into the calf crop. Pacific Stockman 8(5): 9, 11. May 1942. 286.85 W52

CRAIG, GLENN H., and LOOMER, CHARLES W. Collective tenure on grazing land in Montana. Mont. Agr. Expt. Sta. Bul. 406, 59 pp., map. Bozeman, Feb. 1943. References. 100 M76

A study of the common forms of collective tenure, the problems involved, and the outlook for the future.



HENDRICKS, B. A. Graded trails on rough ranges. Proper trails, coupled with salting in better feed areas, which tend to lure cattle from water holes, will improve conditions. Pacific Stockman 8(8): 9, 11, illus. Aug. 1942. 286.85 W52

Suggestions for the location and construction of trails, including provision of drain bars and erosion checks.

ROBERTS, BOB. Grass that makes beef; permanent pastures in Imperial Valley prove actual green feedlots. West. Livestock Jour. 21(22): 24, 26, 28, 30. Mar. 15, 1943. 6 F2278

Reports successful experiments with permanent pastures under irrigation in the Imperial Valley of California. Exact ingredients of the pasture mixes are not given.

STODDARD, LAURENCE A., and SMITH, ARTHUR D. Range management. 547 pp., illus., maps, diagrs. New York [etc.] McGraw-Hill book co., inc., 1943. References. (American forestry series) 60.1 St6

A comprehensive study, including treatment of plant ecology, soils, and animal husbandry in their relations to range management.

### WILDLIFE

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- Describes pre-loading equipment using hydraulic jacks and two false bunks.
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- WINKELMANN, H. G. Au sujet de la classification des grumes résineuses suivant la qualité. Jour. Forest. Suisse 93(11): 217-224. Nov. 1942. 99.8 J82



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DESJARDINS, ALBERT. La cour à bois et les empilements pour le séchage à l'air libre des bois sciés. Québec. Serv. Forest. Bul. (n.s.) 1, 21 pp., illus. Québec, 1942. References. 99.9 Q34

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GREELEY, W. B. Industrial forestry meets the shock of war. Amer. Forests 49(5): 210-212, 266, 268, illus. May 1943. 99.8 F762

Effects of war on the Douglas fir lumber industry.

GRONDAL, BROR L. Timber and its place in the post-war era. Brit. Columbia Lumberman 27(4): 27-28, 52. Apr. 1943. 99.81 B77

Prospects for the future of the lumber industry in the Pacific Northwest and Canadian Pacific Coast.

[GUTIERREZ, RICARDO J.] Lumber opportunities in Mexico. Timberman 44(6): 72. Apr. 1943. 99.81 T484

Brief report of a survey made by the author during a recent stay of six months in Mexico.

LUMBER industry of Vancouver Island rooted deep in coast history.

Brit. Columbia Lumberman 27(4): 82, 84, 86. Apr. 1943. 99.81 B77

A short history of the lumber industry in British Columbia, summarized from a series of articles in the centenary edition of the Victoria Colonist.

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Statements of policy from executives of four forest-owning companies in the Douglas fir region.

SLIFKO, CHARLES W. Wartime trends in the lumber industry. U. S. Dept. Com. Dom. Com. 31(15): 19-21. Apr. 15, 1943. 157.54 D713

SORGER, ED. Preservation of manpower in the West Coast logging industry. Timberman 44(6): 43-44, 46, 48. Apr. 1943. 99.81 T484

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U. S. WAR PRODUCTION BOARD. Western lumber. Fed. Register 8(90): 5885-5886. May 7, 1943. 169 F31

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## PRODUCTS UTILIZATION

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Describes briefly six tests for wooden springs.

BLITZED timber. To a site at ---comes London's "blitzed" timber - "blitzed," but not done for, and still ready and able to stand up to further stresses - further strains - and, if necessary, again take its place in the front line. Wood 8(4): 66. Apr. 1943. 99.82 W855

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BUILDING a modern boat. Wood 8(3): 39-43, illus. Mar. 1943. 99.82 W855

"The information incorporated in this article has been obtained from the Walton Yacht Works Limited." Describes Royal Air Force rescue boat.

GREAT BRITAIN. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. FOREST PRODUCTS RESEARCH LABORATORY. Uses for sawdust and shavings. Gt. Brit. Dept. Sci. and Indus. Res., Forest Prod. Res. Lab. Leaflet 25, 3 pp. [Princes Risborough] Oct. 1942. 99.9 G796L

GRONDAL, BROR L. After victory - what? Amer. Forests 49(5): 235-238, 268-270, illus. May 1943. 99.8 F762

Post-war utilization of wood, especially as influenced by recent developments in research.

GUENTHER, ERNEST. Oil of cedar wood. Soap 19(5): 94-97, 109, illus. May 1943. References. 307.8 Sol2

Extraction, properties and uses of oil from *Juniperus virginiana* and *Thuja occidentalis*.

HATFIELD, IRA. A chemical plant in a forest. Monsanto Mag. 22(2): 18-21, illus. Apr. 1943. 309.8 M75

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Results of systematic tests of the physical properties of laminated densified woods of two types; "sandwich" and impregnated.

KEEN, GILBERT R. Some of the woods used for aeroplanes. (To be cont.) Trees 6(4): 120-122. Apr./June 1943. 99.8 T714  
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MERRYFIELD, MAURICE R. Wood for war. Mod. Packaging 16(9): 41-45, 112, illus. May 1943. 309.8 M72

The use of wood and wood products for war packaging.

OBERTI, FEDERICO. Fabricación de guitarras con maderas argentinas; el algarroba da el mejor material por la uniformidad de su veta, su necesaria porosidad y su repercusión sonora. Chacra 13(148): 7-9, 76, illus. Feb. 1943. 9 C34

Manufacture of guitars from Argentine woods; "algarrobo" (*Prosopis*?) is recommended because of its fine grain and sonorousness.

RICH, MILLICENT. Wooden-soled shoes. Wood 8(3): 44, illus. Mar. 1943. 99.83 W855

Poplar is being used for soles of women's and children's shoes by a firm in Northampton, England. It is reported that experiments are being made with plywood.



- SCHAAF, KARL M. Good furniture packing keeps good will; material shortage stimulates ingenuity. Furniture Mfr. 58(4): 24-25, 27, illus. Apr. 1943. 300.8 F982
- Illustrations show various types of crates and boxes.
- STEARNs, JOSEPH L. Wood replacing over five million tons of metal in 1943. South. Lumberman 166 (2091): 38. May 15, 1943. 99.81 So82
- TIE PRODUCERS discuss war problems; scarcity and inefficiency of labor, less production, price regulation and grading, receive attention. Railway Age 114(20): 948-951. May 15, 1943. 288.8 R136
- Report of annual meeting of Railway Tie Association in St. Louis, May 4.
- TIMBER reconditioning; a valuable recovery service - making damaged wood look like new. Timber Trades Jour. 165(3475): 9-10. Apr. 3, 1943. 99.81 T48
- Timber salvage in Great Britain.
- TRENK, F. B. Wisconsin walnut to the front. Wis. Conserv. Bul. 8(4): 12-14. Apr. 1943. 279.8 W752
- Walnut for gunstocks; harvesting, methods of sawing, cutting and steaming gunstock blanks, prices for standing trees, proposed inventory of stock available.
- U. S. CONTAINER COORDINATING COMMITTEE. Army-Navy general specifications for packaging and packing for overseas shipment. 204 pp., illus. Washington, U. S. Govt. print. off., 1943. 173.3 C76
- Descriptions and specifications for various types of boxes, crates, barrels, drums, and bags, made of wood, plywood, fiber and paper.
- VOGEL, FREDERICK H. Use of native Michigan timber in the box and crate industry. Mich. Agr. Expt. Sta. Spec. Bul. 323, 43 pp., illus. East Lansing, Apr. 1943. References. 100 M58S
- Project conducted in collaboration with the Lake States Forest Experiment Station, St. Paul, Minn.
- "This bulletin points out possible avenues of increased efficiency and expansion wherein the Michigan wood container industry may grow and thereby offer a greater and more profitable outlet for native raw materials. It should also aid woodland timber owners to locate markets for their products."-- Preface.
- [WINSLOW, CARLILE P.] Wood goes to war. U. S. Forest Serv. Forest Prod. Lab. D1426, 7 pp., processed. Madison, Wis., Dec. 1942. 1.9 F761R
- Reprinted from South. Lumberman 165(2081): 143-147. Dec. 15, 1942. 99.81 So82. Based on address delivered at 51st annual meeting of the International Concatenated Order of Hoo-Hoo, Milwaukee, Wis., Sept. 10, 1942 (published in Jour. Forestry 40(12): 920-922. Dec. 1942. 99.8 F768).
- WOOD replaces steel in office equipment. Furniture Mfr. 58(4): 16-17, illus. Apr. 1943. 300.8 F982
- Describes new filing cabinet, tray, and visible index, made almost entirely of wood.
- WRIGHT, L. R. Canadian spruce and birch in world's fastest fighter-bomber; unusual laminated wood construction combines lightness and great strength. Canada Lumberman 63(9): 32-34, 51, illus. May 1, 1943. 99.81 C16

ADHESIVES

[BLACK, JOHN M.] The effect of fire-retardant chemicals on glues used in plywood manufacture. U. S. Forest Serv. Forest Prod. Lab. R 1427, 7 pp., diagrs., tables, processed. Madison, Wis., Mar. 1943. References. 1.9 F761R

"The material here presented was originally submitted in 1942 by the author as a thesis for the degree of Bachelor of Science in chemistry at the University of Wisconsin."

FEJER, GEORGE. Lamination has made available the endless array of products discussed here. Wood 8(3): 47-50, illus. Mar. 1943. 99.83 W855

Various types of structural, semi-structural and frame elements, moulded panels, sheets, tubes, ducts, etc., are briefly discussed. GLUES build for war; types from soybean to melamine developed by I. F. Laucks, inc. Furniture Mfr. 58(4): 12-13, 22, 28, illus. Apr. 1943. 300.8 F982

[KAUFERT, F. H., and RICHARDS, C. AUDREY] A procedure for measuring the mold resistance of protein glues. U. S. Forest Serv. Forest Prod. Lab. [Mimeo.] 1344, 3 pp., pl., diagr., table, processed. Madison, Wis., Mar. 1943. 1.9 F761R

"Issued in cooperation with the Army Air Forces and the Bureau of Aeronautics under the supervision of the Aeronautical Board." SEPERSKI, S. F. Improvements in urea formaldehyde adhesives. Wood Prod. 48(4): 14-15, 57, illus. Apr. 1943. 99.82 W856  
Discusses working life, bond strength, filler, and stability.

BRIDGES

ARMY builds creosoted timber bridges. Wood Preserv. News 21(4): 37-40, 48. Apr. 1943. 300.8 W853

Describes construction of 15 highway bridges built in the development of a large southern Army cantonment.

LANGLEY, H. E. Pre-framed timber bridges in New Hampshire. Roads and Streets 86(4): 44-46. Apr. 1943. 288.8 R536

Design, methods of fabrication and erection, and costs.

STEADMAN, M. S. Georgia's steel and timber bridge maintenance... Substitute grades of lumber used - pine oil vat treatment helpful. Roads and Streets 86(4): 64-65. Apr. 1943. 288.8 R536

Abridgment of paper given at Southeastern States Highway Conference, Chattanooga, Tenn.

BUILDING CONSTRUCTION

GOTTSCALK, F. W. Wood in pulp and paper mill construction. Paper Indus. and Paper World 25(1): 36-40. Apr. 1943. 302.8 P1923

Pipe, exhaust hoods, roof decks, floors and tanks are some of the places wood may be used.

HARVEY, HOLMAN. World's greatest timber structure made possible by modern connector principle. Brit. Columbia Lumberman 27(4): 62-63, illus. Apr. 1943. 99.81 B77

U. S. Navy blimp-hangar, now nearing completion, has an unobstructed area of 237 x 1000 ft. and the roof arches rise 153 ft. from the floor.

This article, slightly abridged, also in Constructor 25(4): 28-29. Apr. 1943. 290.8 C764



- Another version in Miss. Val. Lumberman 74(18): 11, 30.  
 Apr. 30, 1943. 99.81 M69
- HERREY, HERMAN. At last we have a prefabrication system which enables architects to design any type of building with 3-dimensional modules. Konrad Wachsmann and Walter Gropius produce the General panel corporation's packaged building. New Pencil Points, Apr. 1943, pp. 36-47, illus. 296.8 B37
- "The present system is based on materials now available - mostly wood."
- MOLTKE, WILLO von. Prefabricated panels for packaged buildings. Architect. Rec. 93(4): 50-53, illus. Apr. 1943. 296.8 Ar23
- Describes a "prefabricated, fully demountable" system of building prefabrication that "consistently uses the same module for all dimensions, horizontal vertical and lateral, a truly three-dimensional module, with a standardized joint detail and a wedge connector which is universal - used for all joints."
- THE PREFABRICATED house...5. Wood, material of realization. Architect. Forum 78(4): 71-78, illus. Apr. 1943. 296.8 B76
- Describes various types of sectional, pre-cut, and conventional forms of prefabrication using wood.
- STRUCTURAL steel workers turn to wood, timber is result; wood structural members are light and strong - added advantage is that it can be cut on job with ordinary tools. Canada Lumberman 63(10): 12-13, illus. May 15, 1943. 99.81 C16
- Describes system of wood structural framing based on a wood plate girder frame, supplementary joists and purlins and wood "H" columns.
- TWO TRAVELING tower derricks erect huge timber blimp hangar. Engin. News-Rec. 130(16): 62-66, illus. Apr. 22, 1943. 290.8 En34
- Methods and equipment used for steel construction were adapted in building the "world's greatest timber structure."
- WORLD'S largest timber plant to build giant army cargo transport planes. Wood Prod. 48(4): 20, 22, illus. Apr. 1943. 99.8 W856
- "30,000 tons of critical materials were saved by the adoption of timber framing, non-metallic piping and equipment."

#### CHARCOAL

- GREAT BRITAIN. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. FOREST PRODUCTS RESEARCH LABORATORY. Further notes on the manufacture of charcoal in portable kilns. Gt. Brit. Dept. Sci. and Indus. Res., Forest Prod. Res. Lab. Leaflet 24, 8 pp., illus. [Princes Risborough] July 1942. 99.9 G796L
- RISI, JOS. L'industrie de la carbonisation du bois dans la Province de Québec. Québec. Serv. Forest. Bul. (n.s.) 3, 144 pp., illus., processed. References. 99.9 Q34
- The charcoal making industry in the Province of Quebec. Discusses history, statistics, theory, methods, equipment, forms and uses of charcoal.

## NAVAL STORES

LA EXPLOTACIÓN resinífera de nuestros bosques de pinos. Rev. de Econ. [Mexico] 6(3): 8-9. 280.8 R3293

The utilization of Mexican pine forests for resins. American and French methods of collecting are described, and uses are discussed.

FARQUHAR, NORMAN G. Soap from southern pines. Chem. & Metall. Engin. 50(4): 108. Apr. 1943. 38F E12

Preliminary report of tests on rosin soaps being made by Hercules Powder Co.

HASTINGS, R., POLLAK, A., and WAFER, J. M. Tall oil in soap. Soap 19(5): 24-27, 70. May 1943. References. 307.8 Sol2

Production of tall oil as a byproduct of paper manufacture, its analysis and suitability for use in soaps.

## PULP AND PAPER

AMERICAN SOCIETY FOR TESTING MATERIALS. COMMITTEE D-6 ON PAPER AND PAPER PRODUCTS. Report. Amer. Soc. Testing Mater. Proc. (1942)42: 355-358. Philadelphia, Pa. [1943] References. 290.9 Am34

L. S. Reid, Chairman of Committee.

BIGGER, R. P., and DOBBINS, T. E. Fiber cans as substitute packages. Paper Mill News 66(18): 12-14. May 1, 1943. 302.8 P195

Presented at annual meeting of Technical Association of the Pulp and Paper Industry, Feb. 1943.

CLARK, JAMES d'A. The ultimate strength of pulp fibers and the zero-span tensile test. Paper Indus. and Paper World 25(1): 73-74, 76. Apr. 1943. 302.8 P1923

"A portion of a thesis submitted in partial fulfillment of the requirements of The Institute of Paper Chemistry for the degree of Doctor of Philosophy from Lawrence College, Appleton, Wisconsin, June, 1942."

CODWISE, PHILIP W. The resistance of sized paper and paperboard to water at elevated temperatures. Paper Indus. and Paper World 25(1): 90. Apr. 1943. 302.8 P1923

Abridgment of paper presented at annual meeting of Technical Association of the Pulp and Paper Industry, Feb. 1943.

DREWSSEN, PIERRE. The flat crush test. Paper Indus. and Paper World 25(1): 88. Apr. 1943. 302.8 P1923

Abridgment of paper presented at annual meeting of Technical Association of the Pulp and Paper Industry, Feb. 1943.

HILL, EDWARD H. The effects of various cooking conditions on the bleachability and strength characteristics of kraft pulp. Paper Mill News 66(18): 17-19. May 1, 1943. 302.8 P195

Presented at annual meeting of Technical Association of the Pulp and Paper Industry, Feb. 1943.

LANE, WILLIAM H. A study of the relationship between the air permeability and oil permeability of paper. Paper Indus. and Paper World 25(1): 78, 80. Apr. 1943. 302.8 P1923

"A portion of a thesis submitted in partial fulfillment of the requirements of The Institute of Paper Chemistry for the degree of Doctor of Philosophy from Lawrence College, Appleton, Wis., 1942."



- LITTLE, JOHN R. A theory of box compressive resistance in relation to the structural properties of corrugated board. Paper Indus. and Paper World 25(1): 68, 70. Apr. 1943. 302.8 P1923  
 Abridgment of paper presented at annual meeting of Technical Association of the Pulp and Paper Industry, Feb. 1943.
- McGOVERN, J. N., and KELLER, E. L. Sulfite pulps from several southern hardwoods. South. Pulp & Paper Jour. 5(11): 7-10, diagr. Apr. 1943. References. 302.8 So8  
 Reprinted from U. S. Forest Serv. Forest Prod. Lab. R1409. July 1942. 1.9 F761R  
 Experiments conducted at U. S. Forest Products Laboratory, using Black willow (*Salix nigra*), Cottonwood (*Populus deltoides virginiana*), and Sugarberry (*Celtis laevigata*).
- NELSON, T. J. Method to obtain buoyancy of paper shipping cases. Paper Trade Jour. 116(18): 34, illus. May 6, 1943. 99.81 P196  
 Suggests sealing of each corrugated sheet along open edges of corrugations.
- PAPER MILL NEWS. Review number, v. 66, no. 17, 94 pp., illus., diagrs. Apr. 24, 1943. 302.8 P195  
 Summary of OPA price actions; Production control orders under WPB; Annual statistical review of the pulp and paper industry of the United States; A chronological review.
- PERKINS, JAMES A. Price control of pulp and paper. Paper Mill News 66(17): 34, 36, 38. Apr. 24, 1943. 302.8 P195  
 Reviews Office of Price Administration regulations affecting the pulp and paper industry.
- STRANGE, JOHN G. Function of war products development section. Paper Trade Jour. 116(18): 24-27. May 6, 1943. 302.8 P196  
 Organization and projects of the War Products Development Section of the Pulp and Paper Division of the War Production Board. The objective is "to encourage and facilitate the development of paper and paperboard for war uses or as substitutes for critical materials."
- TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY. STANDARDS COMMITTEE. Report - 1942. Paper Trade Jour. 116(16): 171-172. Apr. 22, 1943. References. 302.8 P196  
 Presented by Roger C. Griffin, Chairman, at the annual meeting of the Association, Feb. 1943.
- U. S. FOREST SERVICE. Southern pulpwood goes to war; more and more is needed from the farm woods. [4] pp., processed. Washington, D. C. [1943?] 1.962 A2So8  
 "Prepared by Forest Service and Extension Service cooperating."
- U. S. OFFICE OF PRICE ADMINISTRATION. Pulpwood cut from the stump in certain southeastern states. Fed. Register 8(89): 5853-5854. May 6, 1943. 169 F31  
 Maximum Price Regulation 388. The States included are Kentucky, Virginia, North Carolina, Tennessee, Alabama, Louisiana, Texas, Arkansas, and Mississippi.
- U. S. OFFICE OF PRICE ADMINISTRATION. Pulpwood produced in the states of South Carolina, Georgia and Florida. Fed. Register 8(89): 5851-5853. May 6, 1943. 169 F31  
 Maximum Price Regulation 387.

TANNING MATERIALS AND DYEWOODS

DETWILER, S. B. Quebracho makes shoes; Latin America has become increasingly important to tanners in the United States because of its wealth of hides and because its quebracho wood is the most important tanning material produced anywhere in the world today. U. S. Off. Foreign Agr. Relat. Agr. in the Americas 3(4): 65-67. Apr. 1943. 1 F752A

FOWLER, MARVIN E. Care of tanbark to prevent deterioration. 3 pp. [Washington, D. C.] U. S. Bureau of plant industry, Division of forest pathology, Apr. 1943. 1.965 F3C18  
General instructions for harvesting and marketing tanbark.

VENEERS AND PLYWOOD

AUSTRALIA. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. DIVISION OF FOREST PRODUCTS. The veneer lathe of the Division of forest products. Austral. Council Sci. and Indus. Res., Jour. 16(1): 29-32. Feb. 1943. 514 Au72J

Report of preparation of veneers from 28 species of Australian woods.

DOUGLAS FIR PLYWOOD ASSOCIATION. Plywood for all construction uses. Soc. Residential Appraisers Rev. 9(4): 6-10, illus. Apr. 1943. 282.9 Sol

FAIRCHILD, SHERMAN M. Plastic plywood airplanes. Mfrs. Rec. 112(5): 28-29, 60, 62, illus. May 1943. 297.8 M31

Reviews progress in plasted-bonded plywood fabrication, especially the Duramold process.

HESS, ROBERT W. "How plywood mfrs. can help aircraft industry." Wood Prod. 48(4): 38, 40, 42, 44. Apr. 1943. 99.82 W856

"Editor's note: In the two preceding issues of Wood Products were published a stenographic report of Mr. Hess' remarks at the recent meeting of the Plywood Institute, which were of necessity incomplete. Since the subject is of such importance to the aircraft and plywood industry, Mr. Hess has very kindly consented to elaborate on it more in detail and we take pleasure in presenting his further thoughts for the industry's advantage herewith."

PERKINS, ROBERT C. Official plywood and veneer specifications. Aero Digest 42(5): 273-274, 277, 279-280, 284, illus. May 1943. 333.8 Ae82

Illustrations show allowable and non-allowable defects.

SMITH, W. T. Preparation and processing in finishing plywood aircraft. Wood Prod. 48(4): 32, 34, 36. Apr. 1943. 99.8 W856

STRENGTH of nailed plywood joints subjected to lateral loading. Engin. News-Rec. 130(18): 121-123, illus, diagr. May 6, 1943. 290.8 En34

Describes tests made under conditions conforming closely to field practices.

U. S. FOREST SERVICE. FOREST PRODUCTS LABORATORY. Notes on the manufacture of flat plywood, revised April 1943. U. S. Forest Serv. Forest Prod. Lab. Mimeo. R543, rev., 8 pp., processed. Madison, Wis., Apr. 1943. References. 1.9 F761R



WOOD AS FUEL

- ARIES, ROBERT S. Wood waste makes fuel briquets. Amer. Lumberman, no. 3256, pp. 26-27, illus. May 15, 1943. 99.81 Am3  
Methods of manufacture, equipment, and costs of production.
- DUBOIS, L. de G. Le gazogène (essai de vulgarisation). Québec. Serv. Forest. Bul. (n.s.) 2, 9 pp., illus. Québec, Canada, 1942. 99.9 Q34  
The gas-producer, an attempt at popularizing. Both wood- and charcoal-burning types are described.
- GREAT BRITAIN. DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH. FOREST PRODUCTS RESEARCH LABORATORY. Furnaces and stoves for burning sawdust. Gt. Brit. Dept. Sci. and Indus. Res., Forest Prod. Res. Lab. Leaflet 26, 11 pp., illus. [Princes Risborough] Dec. 1942. 99.9 G796L
- MOORE, FRANCIS I., and HUEY, BEN M. The fuel-wood outlook in Minnesota - 1943. U. S. Forest Serv. Lake States Expt. Sta. Econ. Note 19, 16 pp., processed. St. Paul, Minn., Mar. 1943. 1.9 F7625E

WOOD SEASONING AND PRESERVATION

- CHEMICAL seasoning of Douglas fir; how to get the best results in dry spreading urea. Wood Prod. 48(4): 16. Apr. 1943. 99.82 W856
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